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**THE US ARMY YUMA PROVING GROUND, ARIZONA  
22-YEAR CLIMATE CALENDAR  
1954-1975**

AD-A166 878

March 1986

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by

**James C. Devine**

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U.S. Army Laboratory Command  
**Atmospheric Sciences Laboratory**

White Sands Missile Range, NM 88002-5501

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Weather	Degree Days,	Rain,	Sunrise--Sunset Tables
Precipitation	Trafficability	Snow,	Climate Calendar.
Thunderstorms	Visibility,	Wind	Soil Temperature
Cloudiness,	Terrain	Relative Humidity	
Temperature	Climate	Atmospheric Pressure	
20. ABSTRACT (Continue on reverse side if necessary and identify by block number)			
This report contains, in calendar form, the following data for the Yuma Proving Ground, AZ: average daily maximum and minimum temperatures, record extremes of these parameters, and years of occurrences; monthly average maximum and minimum temperatures, and average relative humidity; average windspeed in knots; prevailing wind direction; average and maximum precipitation values daily and by month; average sky cover and average number			

20. ABSTRACT (cont)

of days clear, partly cloudy, and cloudy. Generally all data cover the 1954-1975 period, but a few begin in 1957; and for the seasonal average tables, the period from 20 March 1954 through 19 March 1976 was used.

Tables covering data of interest include: maximum and minimum temperatures, to include total occurrences and percentage of overall occurrence as well as monthly percentages of occurrence; seasonal maximum, minimum, and daily average temperatures; precipitation by monthly occurrence and monthly and annual totals; sky condition; relative humidity; soil temperature; station atmospheric pressure; degree days both heating and cooling; and sunrise-sunset tables.

The general terrain features, climate, trafficability, thunderstorms, and periods of special weather interest are covered in the text and appendix A.

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Special thanks must go to all of the individuals who served with the US Army Atmospheric Sciences Laboratory's Yuma Meteorological Team during the period from 1954 through the spring of 1976. It was their dedication to duty and their combined efforts in collecting and recording the meteorological observations during this span of time that have made possible this report.

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## 1. INTRODUCTION

The weather data for this calendar were collected at the Central Meteorological Observatory (CMO) of the US Army Yuma Proving Ground (USAYPG), AZ, which is located 4 mi southeast of the main post. The geographical coordinates of the CMO are 32°50' N and 114°24' W. The station elevation is 324 ft above sea level.

The climatological data cover the period from 1954 through 1975, a data base of 22 yr. Certain parameters were available only from 1957 through 1975; therefore, all tables show the period of record where applicable.

Collection of data for the next calendar update has been initiated. Expected to be published in 1986, the update will contain as much data as possible through calendar year 1985, and hopefully the seasonal period of 21 December 1985 through 19 March 1986.

## 2. CLIMATE

The climate of the USAYPG is generally characterized by clear skies, low relative humidity, uncomfortably warm summers, mild winters, light surface winds, unrestricted visibility, and little precipitation.

Summers, from June to September, are uncomfortably warm, making air conditioning an absolute necessity. As the relative humidity is usually low, evaporative coolers work well here.

Winters are mild, with morning lows generally in the low forties and afternoon maximums in the sixties. In a normal year temperatures do not fall below freezing, except at low elevations along the Colorado River and in depressions below the general ground level. These areas act as receptacles for the densest and coldest air, and hence temperatures are several degrees below those of the surrounding terrain. These areas also have slightly higher daytime temperatures, but the difference is much more noticeable at night.

## 3. TERRAIN

The broad Colorado River, flowing from east to west through the city of Yuma, empties into the Gulf of California 70 mi to the south. Castle Dome Mountains, situated 40 mi to the northeast, and the Gila Mountains, 20 mi to the southeast, are the only significant breaks in this desert plains region. Both ranges have elevations in excess of 3000 ft. The barren sand dunes of the Yuma Desert cover most of the region south of Yuma between the Colorado River and the Gila Mountains, while just 50 mi to the west of Yuma is the fertile Imperial Valley of California.

Excluding the irrigated sections to the west and the Yuma Desert, the prevailing vegetation types in the Yuma region are creosote bush and mesquite at lower elevations on the desert floor with palo verde trees and cacti in the hills.

Trafficability for ground vehicles is excellent at least 95 percent of the time, and aircraft can operate under Visual Flight Rules almost continuously during the entire year.

USAYPG receives about 85 percent of all possible sunshine.

#### 4. TEMPERATURE

Temperatures have been described, and accurately so, as hot in summer and ideal in winter. June, July, August, and September have an average maximum temperature of 100 °F or more with average minimums of 72 to 81 °F. The average maximum temperatures for December and January are 68 and 67 °F and the average minimums are 42 and 41 °F, respectively.

The earliest date reporting 100 °F was 3 April 1957, and the latest date was 24 October 1959 with 102 °F. The highest temperature recorded at USAYPG was 118 °F on 24 June 1957, 31 July 1957, and 9 July 1958. The lowest was 23 °F on 8 January 1971. The city of Yuma reported a low of 22 °F in 1937 and a high of 120 °F in 1910. These two measurements were made at a location 4 mi north of the city airport.

Using increments of 5 °F, tables 1 and 3 present the numerical count and the proportional percentages of occurrence of the maximum and minimum temperatures for each month represented in this 22-yr study. Tables 2 and 4, using the same numerical increments, show the percentage of time that each increment appears during any given month.

Table 5 lists the warmest and coolest average maximum and the warmest and coolest average minimum temperatures for each month of the year and the year of occurrence.

Tables 6 through 8 provide seasonal average maximum, minimum, and daily average temperatures ranked numerically from warmest to coolest.

#### 5. PRECIPITATION

For most years, Yuma, AZ, is the driest major city in the United States. The mean annual precipitation of 3.26 inches is less than the amount received by many towns in southeastern Arizona during a single midsummer month. Yuma lies too far south to benefit from the winter rains brought into the state by storms originating in the North Pacific Ocean and too far west to benefit from the summer rains associated with moist air from the Gulf of Mexico. Most precipitation at USAYPG develops from tropical disturbances in the Pacific Ocean or the Gulf of California.

The only measurable snowfall recorded between 1901 and 1975 in the Yuma area occurred in December 1932 when 1.5 inches fell. No snowfall occurred during the 22 yr of this report.

Precipitation means for winter are very misleading as the means result from a very few wet months (comparably) and many exceptionally dry months. Consider, for example, December, during which the mean was exceeded on the average only once in 3 yr and in the wetter years a measurement equal to or greater than 1.0 inch occurred only once in 7 yr.

The monthly maximum rainfall amounts occurring during the summer months have been generally in the form of showers and thundershowers associated with tropical disturbances in the Pacific Ocean or the Gulf of California.

USAYPG receives measurable precipitation on an average of 18 days a year, with only 8 days recording amounts equal to or exceeding 0.10 inch. The average annual rainfall is 3.26 inches and is almost exclusively rain. According to the means, the wettest months are August, September, October, December, and January. The driest months are May and June. Although climatologically, May is the driest month, in this climatological study of 22 yr, June had 14 yr when not even a trace of rain fell while May counted only 9 yr in that category.

Table 9 lists the monthly totals of precipitation for each of the 22 yr in this report.

Table 10 lists the total number of occurrences of precipitation of 0.00 inches, a trace, and thereafter amounts in increments of 0.25 inch for each month.

## 6. WINDS

Surface winds are light throughout the year, with the average speed being 4 to 5 kn. Average peak winds during fall and winter are 14.3 kn and for spring and summer are 18.7 kn. The prevailing wind direction is from the north-northwest from November through February and from the west to southwest the remainder of the year. The highest surface wind gust recorded at USAYPG was 61.7 kn (71 mph) on 20 March 1970.

## 7. VISIBILITY

Visibility at Yuma is rarely restricted, equaling 10 mi or greater 97 percent of the time. The average number of days per month when visibility can be expected to drop below 7 mi (11.265 km) peaks at 2 days in September. Thereafter, the average number of low visibility days declines to 1.7 in August; 0.8 in July; 0.7 in January, March, October, and November; 0.6 in June and December; and 0.5 in February, April, and May. Restrictions are usually the result of dust, haze, or blowing sand. Fog or precipitation heavy enough to cause a restriction to visibility is rare.

## 8. THUNDERSTORMS

Compared to the South and Midwest, Yuma is relatively free of thunderstorms. On the average, only 3 mo of the year experience more than one thunderstorm. August has an average of 4.4 thunderstorm days, while July and September are

tied with 1.7 days each. October averages 0.8 day; June 0.7; March and May 0.3; April and November 0.2; and January, February, and December have the fewest with 0.1 thunderstorm day in an average month.

## 9. SKY CONDITION

Cloudiness is rare at USAYPG. The annual sky cover (reported in tenths of sky from 0.0 to 1.0) is as follows: clear (0.0 to 0.3) = 67 percent of all hours; partly cloudy (0.3 to 0.7) = 24 percent; and cloudy (0.8 to 1.0) = 9 percent. Most of the cloudiness is in the form of cirriform clouds with bases from 25,000 ft up.

Sky condition data are presented in table 11.

## 10. OTHER METEOROLOGICAL DATA

Relative humidity data appear in table 12, soil temperatures in table 13, atmospheric surface pressure in table 14, and degree days - heating in table 15. Degree days - cooling are in tables 16 through 20. Appendix A contains records and averages of interest. Appendix B provides the monthly sunrise and sunset times, in tables B-1 through B-12, for USAYPG in both hours and minutes and hours and hundredths of hours. The climate calendar is appendix C.

TABLE 1. MAXIMUM TEMPERATURES: TOTAL OCCURRENCES AND OVERALL PERCENTAGE  
YUMA PROVING GROUND, AZ (1954-1975)

MONTH TEMPS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	PERCENT OF MAXIMUMS
40-44	0	0	0	0	0	0	0	0	0	0	0	2	2	0.02
45-49	7	0	0	0	0	0	0	0	0	0	0	4	11	0.14
50-54	17	3	0	0	0	0	0	0	0	0	3	22	45	0.56
55-59	76	23	3	1	0	0	0	0	0	1	5	72	181	2.25
60-64	131	58	32	2	0	0	0	0	0	3	27	100	353	4.39
65-69	182	127	90	31	1	0	0	0	0	11	92	191	725	9.02
70-74	160	166	138	64	10	0	0	0	0	29	133	188	888	11.05
75-79	93	135	123	88	39	0	0	0	3	56	159	85	781	8.89
80-84	13	71	141	113	64	9	1	0	5	76	132	18	643	8.00
85-89	3	32	101	146	99	39	0	3	27	137	92	0	679	8.45
90-94	0	6	46	136	146	52	9	16	79	161	17	0	668	8.31
95-99	0	0	8	54	177	129	38	53	145	142	0	0	746	9.28
100-104	0	0	0	25	108	173	168	245	220	64	0	0	1003	12.48
105-109	0	0	0	0	34	149	316	285	142	2	0	0	928	11.55
110-114	0	0	0	0	4	91	136	73	39	0	0	0	343	4.27
115-119	0	0	0	0	0	18	14	7	0	0	0	0	39	0.49

TABLE 2. MAXIMUM TEMPERATURES: MONTHLY PERCENTAGE OF OCCURRENCE  
 YUMA PROVING GROUND, AZ (1954-1975)

MONTH TEMPS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
40-44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3
45-49	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
50-54	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	3.2
55-59	11.1	3.7	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.2	0.8	10.6
60-64	19.2	9.3	4.7	0.3	0.0	0.0	0.0	0.0	0.0	0.4	4.1	14.7
65-69	26.7	20.5	13.2	4.7	0.2	0.0	0.0	0.0	0.0	1.6	13.9	28.0
70-74	23.5	26.7	20.2	9.7	1.5	0.0	0.0	0.0	0.0	4.3	20.2	27.6
75-79	13.6	21.7	18.0	13.3	5.7	0.0	0.0	0.0	0.5	8.2	24.1	12.5
80-84	1.9	11.4	20.7	17.1	9.4	1.4	0.2	0.0	0.8	11.1	20.0	2.6
85-89	0.4	5.2	14.8	22.1	14.5	5.9	0.0	0.4	4.1	20.1	13.9	0.0
90-94	0.0	1.0	6.7	20.6	21.4	7.9	1.3	2.4	12.0	23.6	2.6	0.0
95-99	0.0	0.0	1.2	8.2	26.0	19.6	5.6	7.8	22.0	20.8	0.0	0.0
100-104	0.0	0.0	0.0	3.8	15.8	26.2	24.6	35.9	33.3	9.4	0.0	0.0
105-109	0.0	0.0	0.0	0.0	5.0	22.6	46.3	41.8	21.5	0.3	0.0	0.0
110-114	0.0	0.0	0.0	0.0	0.6	13.8	19.9	10.7	5.9	0.0	0.0	0.0
115-119	0.0	0.0	0.0	0.0	0.0	2.7	2.1	1.0	0.0	0.0	0.0	0.0

TABLE 3. MINIMUM TEMPERATURES: TOTAL OCCURRENCES AND OVERALL PERCENTAGE  
YUMA PROVING GROUND, AZ (1954-1975)

MONTH TEMPS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	PERCENT OF MINIMUMS
20-24	2	0	0	0	0	0	0	0	0	0	0	0	2	0.02
25-29	21	4	0	0	0	0	0	0	0	0	0	5	30	0.37
30-34	67	14	3	0	0	0	0	0	0	0	3	53	140	1.74
35-39	179	77	21	0	0	0	0	0	0	2	23	158	460	5.72
40-44	182	173	88	14	0	0	0	0	0	4	122	236	819	10.19
45-49	165	176	201	73	5	0	0	0	0	23	186	162	991	12.33
50-54	51	123	217	170	37	1	0	0	0	69	186	54	908	11.30
55-59	15	45	121	212	117	9	0	0	6	164	111	11	811	10.09
60-64	0	9	31	144	206	67	0	0	42	197	29	2	727	9.04
65-69	0	0	0	46	207	163	11	16	138	150	0	1	732	9.11
70-74	0	0	0	1	83	183	51	72	170	62	0	0	622	7.74
75-79	0	0	0	0	24	149	172	184	174	11	0	0	714	8.89
80-84	0	0	0	0	3	81	319	311	117	0	0	0	831	10.34
85-89	0	0	0	0	0	7	125	96	12	0	0	0	240	2.99
90-94	0	0	0	0	0	0	4	3	1	0	0	0	8	0.10

TABLE 4. MINIMUM TEMPERATURES: MONTHLY PERCENTAGE OF OCCURRENCE  
YUMA PROVING GROUND, AZ (1954-1975)

MONTH TEMPS	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
20-24	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25-29	3.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
30-34	9.8	2.3	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	7.8
35-39	26.2	12.4	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.5	23.2
40-44	26.7	27.9	12.9	2.1	0.0	0.0	0.0	0.0	0.0	0.6	18.5	34.6
45-49	24.2	28.3	29.5	11.1	0.7	0.0	0.0	0.0	0.0	3.4	28.2	23.8
50-54	7.5	19.8	31.8	25.8	5.4	0.2	0.0	0.0	0.0	10.1	28.2	7.9
55-59	2.2	7.2	17.7	32.1	17.2	1.4	0.0	0.0	0.9	24.1	16.8	1.6
60-64	0.0	1.5	4.6	21.8	30.2	10.2	0.0	0.0	6.4	28.9	4.4	0.3
65-69	0.0	0.0	0.0	7.0	30.4	24.7	1.6	2.4	20.9	22.0	0.0	0.2
70-74	0.0	0.0	0.0	0.2	12.2	27.7	7.5	10.6	25.8	9.1	0.0	0.0
75-79	0.0	0.0	0.0	0.0	3.5	22.6	25.2	27.0	26.4	1.6	0.0	0.0
80-84	0.0	0.0	0.0	0.0	0.4	12.3	46.8	45.6	17.7	0.0	0.0	0.0
85-89	0.0	0.0	0.0	0.0	0.0	1.1	18.3	14.1	1.8	0.0	0.0	0.0
90-94	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.4	0.2	0.0	0.0	0.0

TABLE 5. AVERAGE MAXIMUM AND MINIMUM TEMPERATURES BY MONTH  
 WARMEST AND COOLEST  
 (PERIOD OF RECORD: 1954 - 1975)  
 YUMA PROVING GROUND, AZ

	MAXIMUM		MINIMUM	
	WARMEST	COOLEST	WARMEST	COOLEST
JAN	72.3 - 1959	60.7 - 1955	48.0 - 1969	35.9 - 1964
FEB	80.9 - 1954	66.9 - 1966	52.5 - 1968	39.1 - 1956
MAR	87.5 - 1972	70.5 - 1973	55.6 - 1972	45.9 - 1962
APR	92.6 - 1954	75.9 - 1967	60.7 - 1959	50.7 - 1975
MAY	99.5 - 1958	86.9 - 1971	68.9 - 1958	59.9 - 1962
JUN	107.3 - 1974	95.7 - 1965	75.8 - 1960	65.9 - 1965
JUL	108.8 - 1957	102.4 - 1955	83.5 - 1959	77.9 - 1962
AUG	108.3 - 1969	101.2 - 1971	84.5 - 1969	76.9 - 1974
SEP	107.1 - 1956	96.3 - 1967	77.7 - 1956	69.2 - 1973
OCT	95.3 - 1965	81.1 - 1972	66.5 - 1964	57.9 - 1971
NOV	81.8 - 1954	71.5 - 1957	53.9 - 1967	45.3 - 1956
DEC	75.1 - 1958	61.9 - 1967	45.1 - 1962	37.5 - 1968

TABLE 6. AVERAGE MAXIMUM TEMPERATURES BY SEASON  
 21 MARCH 1954 THROUGH 20 MARCH 1976  
 (Ranked from warmest to coldest)  
 YUMA PROVING GROUND, AZ

	SPRING 21MAR-20JUN YR (Deg)F	SUMMER 21JUN-20SEP YR (Deg)F	AUTUMN 21SEP-20DEC YR (Deg)F	WINTER 21DEC-20MAR YR (Deg)F
1	60 - 93.22	62 - 107.54	54 - 85.12	(71-72) - 75.34
2	59 - 93.02	60 - 106.83	62 - 84.69	(60-61) - 74.12
3	54 - 92.96	58 - 106.37	58 - 84.64	(58-59) - 73.33
4	66 - 92.68	56 - 106.04	56 - 83.09	(56-57) - 72.17
5	74 - 92.51	57 - 105.41	66 - 82.85	(75-76) - 71.67
6	58 - 91.99	54 - 105.24	63 - 82.65	(55-56) - 71.56
7	68 - 91.87	69 - 105.16	59 - 82.58	(66-67) - 71.50
8	62 - 91.74	74 - 105.11	55 - 82.55	(70-71) - 71.26
9	56 - 91.67	75 - 105.00	73 - 82.44	(73-74) - 71.18
10	72 - 91.34	*70 - 104.93	65 - 82.38	(57-58) - 70.91
11	61 - 91.23	*73 - 104.93	75 - 82.32	(67-68) - 70.87
12	69 - 91.07	59 - 104.92	74 - 81.99	(62-63) - 70.56
13	73 - 89.96	64 - 104.40	67 - 81.75	(69-70) - 70.16
14	57 - 89.28	66 - 104.15	68 - 81.25	(74-75) - 70.10
15	63 - 89.02	63 - 104.02	60 - 81.09	(64-65) - 69.98
16	70 - 88.72	61 - 104.01	64 - 80.51	(61-62) - 69.20
17	55 - 88.68	71 - 103.74	70 - 80.03	(63-64) - 68.78
18	64 - 88.85	72 - 103.68	69 - 79.84	(59-60) - 68.60
19	71 - 88.23	67 - 103.67	57 - 79.01	(68-69) - 68.20
20	65 - 87.21	68 - 103.08	61 - 78.69	(72-73) - 68.07
21	75 - 86.61	55 - 102.78	72 - 75.71	(65-66) - 67.67
22	67 - 85.55	65 - 102.60	71 - 75.63	(54-55) - 66.58
AVG	90.32	104.71	81.40	70.54
HIGHEST	93.22	107.54	85.12	75.34
LOWEST	85.55	102.60	75.63	66.58
RANGE	7.67	4.94	9.49	8.76

NOTE: \* - Tie position to nearest hundredths.

TABLE 7. AVERAGE MINIMUM TEMPERATURES BY SEASON  
 21 MARCH 1954 THROUGH 20 MARCH 1976  
 (Ranked from warmest to coldest)  
 YUMA PROVING GROUND, AZ

	SPRING 21MAR-20JUN YR (Deg)F	SUMMER 21JUN-20SEP YR (Deg)F	AUTUMN 21SEP-20DEC YR (Deg)F	WINTER 21DEC-20MAR YR (Deg)F
1	66 - 64.08	70 - 81.02	54 - 56.75	(67-68) - 47.82
2	58 - 63.50	69 - 80.90	63 - 56.21	(56-57) - 47.58
3	60 - 63.38	71 - 80.55	*65 - 56.12	(64-65) - 45.79
4	59 - 63.02	67 - 80.49	*67 - 56.12	(69-70) - 45.71
5	72 - 62.92	59 - 79.65	66 - 55.86	(57-58) - 45.40
6	56 - 62.88	58 - 79.51	62 - 55.79	(60-61) - 45.39
7	69 - 62.50	66 - 79.50	69 - 55.40	(75-76) - 45.22
8	54 - 62.07	60 - 79.41	58 - 55.37	(71-72) - 44.70
9	68 - 61.89	57 - 78.91	55 - 55.01	(68-69) - 44.57
10	74 - 61.68	56 - 78.89	64 - 54.62	(61-62) - 44.36
11	63 - 61.34	55 - 78.78	59 - 54.57	(62-63) - 44.33
12	*57 - 61.03	63 - 78.60	74 - 54.32	(58-59) - 44.20
13	*61 - 61.03	62 - 78.48	57 - 54.22	(73-74) - 44.11
14	65 - 60.65	64 - 78.46	70 - 53.45	(72-73) - 44.02
15	73 - 60.59	54 - 78.28	68 - 53.08	(59-60) - 43.82
16	*55 - 60.36	74 - 78.18	60 - 53.03	(66-67) - 43.63
17	*70 - 60.36	61 - 77.95	56 - 52.80	(55-56) - 43.33
18	71 - 59.86	72 - 77.88	72 - 52.79	(65-66) - 43.32
19	62 - 59.76	68 - 77.59	73 - 52.56	(54-55) - 43.00
20	67 - 58.91	65 - 77.03	75 - 52.55	(70-71) - 42.72
21	64 - 58.85	73 - 76.96	61 - 51.99	(74-75) - 41.87
22	75 - 58.15	75 - 76.89	71 - 50.54	(63-64) - 40.14
AVG	61.31	78.81	54.23	44.32
HIGHEST	64.08	81.02	56.75	47.82
LOWEST	58.15	76.89	50.54	40.14
RANGE	5.93	4.13	6.21	7.68

NOTE: \* - Tie position to nearest hundredths.

TABLE 8. DAILY AVERAGE TEMPERATURES BY SEASON  
 21 MARCH 1954 THROUGH 20 MARCH 1976  
 (Ranked from warmest to coldest)  
 YUMA PROVING GROUND, AZ

	SPRING 21MAR-20JUN YR (Deg)F	SUMMER 21JUN-20SEP YR (Deg)F	AUTUMN 21SEP-20DEC YR (Deg)F	WINTER 21DEC-20MAR YR (Deg)F
1	66 - 78.38	60 - 93.12	54 - 70.93	(71-72) - 60.02
2	60 - 78.30	69 - 93.03	62 - 70.24	(56-57) - 59.87
3	59 - 78.02	62 - 93.01	58 - 70.01	(60-61) - 59.76
4	58 - 77.74	70 - 92.98	63 - 69.43	(67-68) - 59.35
5	54 - 77.51	58 - 92.94	66 - 69.35	(58-59) - 58.77
6	56 - 77.28	56 - 92.47	65 - 69.25	(75-76) - 58.45
7	72 - 77.13	59 - 92.29	67 - 68.93	(57-58) - 58.16
8	74 - 77.10	57 - 92.16	55 - 68.78	(69-70) - 57.93
9	68 - 76.88	71 - 92.15	59 - 68.58	(64-65) - 57.88
10	69 - 76.78	67 - 92.08	74 - 68.15	(73-74) - 57.64
11	61 - 76.13	66 - 91.83	56 - 67.95	(66-67) - 57.57
12	62 - 75.75	54 - 91.76	69 - 67.62	(55-56) - 57.45
13	73 - 75.27	74 - 91.65	64 - 67.56	(62-63) - 57.44
14	63 - 75.18	64 - 91.43	73 - 67.50	(70-71) - 56.99
15	57 - 75.16	63 - 91.31	75 - 67.43	(61-62) - 56.78
16	70 - 74.54	61 - 90.98	68 - 67.16	(68-69) - 56.38
17	55 - 74.52	*73 - 90.95	60 - 67.06	(59-60) - 56.21
18	71 - 74.04	*75 - 90.95	70 - 66.74	(72-73) - 56.04
19	65 - 73.93	#55 - 90.78	57 - 66.62	(74-75) - 55.98
20	64 - 73.70	#72 - 90.78	61 - 65.34	(65-66) - 55.49
21	75 - 72.38	68 - 90.33	72 - 64.25	(54-55) - 54.79
22	67 - 72.23	65 - 89.82	71 - 63.08	(63-64) - 54.46
AVG	75.82	91.76	67.82	57.43
HIGHEST	78.38	93.12	70.93	60.02
LOWEST	72.23	89.82	63.08	54.46
RANGE	6.15	3.30	7.85	5.56

NOTE: \* - Tie position to nearest hundredths.  
 # - Second of two consecutive tie positions.

TABLE 9. PRECIPITATION: MONTHLY AND ANNUAL TOTALS  
YUMA PROVING GROUND, AZ (1954-1975)

YR/MO	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
1954	0.31	0.07	0.35	0.00	0.00	T	0.19	0.11	0.24	0.00	0.08	T	1.35
1955	*1.55	0.02	0.00	0.03	0.00	0.00	0.58	*2.19	0.00	0.00	T	0.05	4.42
1956	0.05	0.02	0.00	0.00	T	T	0.14	0.00	T	T	0.00	T	0.21
1957	0.61	0.05	0.21	0.22	T	0.00	T	0.33	0.00	1.89	T	0.07	3.38
1958	T	*2.41	0.28	0.04	*0.19	0.17	*1.52	0.71	T	0.33	T	0.00	5.65
1959	0.09	0.23	0.03	T	0.01	T	0.03	1.25	0.18	0.05	0.02	1.55	3.44
1960	0.95	0.18	0.16	0.00	0.03	T	T	T	0.79	T	0.04	0.03	2.18
1961	0.23	0.00	T	T	0.00	0.00	T	1.20	0.15	T	0.03	1.50	3.11
1962	0.76	0.17	0.13	0.00	0.00	0.00	T	0.02	0.11	T	0.12	0.66	1.97
1963	0.48	0.12	0.22	0.05	T	T	T	0.13	2.06	1.17	0.10	0.00	4.33
1964	T	0.14	0.04	0.03	T	0.00	0.04	0.07	0.01	0.08	0.22	0.10	0.73
1965	0.66	0.52	0.09	*1.89	0.00	0.00	0.11	0.03	T	0.00	0.99	*2.11	*6.40
1966	0.66	0.47	0.44	0.00	T	T	0.27	0.14	0.27	1.51	0.10	0.04	4.00
1967	0.41	0.00	0.12	0.02	T	0.00	T	0.89	*2.21	T	0.89	0.89	5.43
1968	0.09	0.54	0.06	0.05	0.00	0.00	0.37	T	0.00	0.03	T	0.07	1.21
1969	1.07	0.04	0.11	T	0.05	0.00	0.14	0.04	0.41	0.04	*1.73	0.32	3.95
1970	T	0.95	*1.38	T	0.00	0.00	0.02	0.57	0.11	0.08	0.00	0.22	3.33
1971	T	0.07	0.00	0.63	0.03	0.00	T	0.22	1.41	0.01	0.00	0.10	2.47
1972	0.00	0.00	0.00	T	T	*1.31	T	0.24	T	*3.78	0.12	0.07	5.52
1973	T	0.71	1.11	0.00	0.03	0.00	0.01	1.62	0.00	0.00	0.22	0.00	3.70
1974	0.74	0.00	0.13	0.00	0.00	0.00	0.12	0.04	0.29	0.26	0.00	0.18	1.76
1975	0.15	0.05	0.28	0.39	0.00	0.00	0.12	0.14	1.45	0.00	0.17	0.40	3.15
TOTAL	8.81	6.76	5.14	3.35	0.34	1.48	3.66	*9.94	9.69	9.33	4.83	8.36	71.69
AVG.	0.40	0.31	0.23	0.15	0.02	0.07	0.17	0.45	0.44	0.42	0.22	0.38	3.26

NOTE: \* = Maximum for month or column during this period of record.

TABLE 10. PRECIPITATION: MONTHLY OCCURRENCES BY INTERVALS  
 (PERIOD OF RECORD: 1954 - 1975)  
 YUMA PROVING GROUND, AZ

INCHES OF PRECIP	JA	FB	MR	AP	MY	JN	JY	AU	SE	OC	NO	DE	TOT.
0.00	1	4	4	7	9	14	0	1	4	5	4	3	56
TRACE	5	0	1	5	7	6	8	2	4	5	4	2	49
0.01-0.25	5	12	11	7	6	1	10	11	6	6	11	10	96
0.26-0.50	3	1	4	1	0	0	2	1	3	2	0	2	19
0.51-0.75	5	3	0	1	0	0	1	2	0	0	0	1	13
0.76-1.00	1	1	0	0	0	0	0	1	1	0	2	1	7
1.01-1.25	1	0	1	0	0	0	0	2	0	1	0	0	5
1.26-1.50	0	0	1	0	0	1	0	0	2	0	0	1	5
1.51-1.75	1	0	0	0	0	0	1	1	0	1	1	1	6
1.76-2.00	0	0	0	1	0	0	0	0	0	1	0	0	2
2.01-2.25	0	0	0	0	0	0	0	1	2	0	0	1	4
2.26-2.50	0	1	0	0	0	0	0	0	0	0	0	0	1
-----													
3.76-4.00	0	0	0	0	0	0	0	0	0	1	0	0	1
TOTAL	22	22	22	22	22	22	22	22	22	22	22	22	264

NOTE: Figures under each monthly column are the total number of years of occurrence.

TABLE 11. SKY CONDITION: ANNUAL NUMBER OF DAYS  
 (PERIOD OF RECORD: 1957 - 1975)  
 YUMA PROVING GROUND, AZ

Condition Year	Clear		Partly Cloudy		Cloudy		Total
	Days	Pct	Days	Pct	Days	Pct	
1957	*209	57.26	89	24.38	*67	18.36	365
1958	259	70.96	69	18.90	37	10.14	365
1959	238	65.21	80	21.92	47	12.88	365
1960	236	64.48	81	22.13	49	13.39	366
1961	243	66.58	68	18.63	54	14.79	365
1962	241	66.03	73	20.00	51	13.97	365
1963	233	63.84	88	24.11	44	12.05	365
1964	249	68.03	91	24.86	26	7.10	366
1965	235	64.38	65	26.03	35	9.59	365
1966	252	69.04	94	25.75	19	5.21	365
1967	230	63.01	100	27.40	35	9.59	365
1968	252	68.85	83	22.68	31	8.47	366
1969	242	66.30	88	24.11	35	9.59	365
1970	229	62.74	*108	29.59	28	7.67	365
1971	257	70.41	95	26.03	13	3.56	365
1972	243	66.39	97	26.50	26	7.10	366
1973	274	75.07	82	22.47	*9	2.47	365
1974	262	71.78	88	24.11	15	4.11	365
1975	*284	77.81	#67	18.36	14	3.84	365
TOTAL	4668		1636		635		6939
AVG	264	67.27	86	23.58	33	9.15	---

\* - Maximum occurrence per category.  
 # - Minimum occurrence per category.

TABLE 12. RELATIVE HUMIDITY IN PERCENT  
 (PERIOD OF RECORD: 1954 - 1975)  
 YUMA PROVING GROUND, AZ

Month	Average Maximum	Average Minimum	Average
JAN	62	23	41
FEB	57	19	37
MAR	50	16	30
APR	42	13	26
MAY	41	12	26
JUN	41	12	26
JUL	49	19	34
AUG	57	22	40
SEP	52	18	35
OCT	52	18	34
NOV	54	20	38
DEC	59	24	42
ANNUAL AVG	52	18	34

TABLE 13. SOIL TEMPERATURE IN DEGREES FAHRENHEIT  
 (PERIOD OF RECORD: 1954 - 1975)  
 YUMA PROVING GROUND, AZ

Month	Average Max	Average Min	Highest	Lowest
JAN	81	40	107	#18
FEB	91	44	118	22
MAR	103	50	131	26
APR	116	56	147	38
MAY	128	64	152	46
JUN	137	73	158	55
JUL	141	83	*160	*63
AUG	138	82	157	62
SEP	130	75	150	55
OCT	113	61	138	33
NOV	94	49	119	30
DEC	80	42	#100	25
ANNUAL AVG	113	60		

\* = Highest temperature in that column  
 # = Lowest temperature in that column

TABLE 14. STATION PRESSURE IN MILLIBARS  
 (PERIOD OF RECORD: 1957 - 1975)  
 YUMA PROVING GROUND, AZ

Month	Avg Max	Avg Min	Average	Highest	Lowest
JAN	1009.1	1004.2	1006.2	1022.7	988.0
FEB	1007.3	1002.0	1004.3	1020.9	988.8
MAR	1004.8	1000.2	1001.9	1021.0	986.6
APR	1002.7	998.0	1000.0	1013.1	986.8
MAY	1000.1	995.7	997.8	1012.4	987.8
JUN	998.0	993.7	995.7	*1005.2	985.4
JUL	999.2	994.7	996.9	1007.0	988.0
AUG	999.5	994.9	997.0	1006.4	987.2
SEP	999.3	995.0	997.0	1008.0	*983.7
OCT	1002.6	998.3	1000.1	1013.2	986.3
NOV	1006.4	1002.0	1003.9	*1023.8	*989.5
DEC	1008.6	1003.5	1005.7	1022.7	988.3
ANNUAL AVG	1003.1	998.5	1000.5		

\* = Highest pressure in that column  
 # = Lowest pressure in that column

TABLE 15. DEGREE DAYS - HEATING, BASE 65 DEGREES FAHRENHEIT  
 22-YEAR AVERAGE (1954-1975)  
 YUMA PROVING GROUND, AZ

Month Date	Nov	Dec	Jan	Feb	Mar (Non-leap year)	Mar (Leap year)
1	0	89	408	737	894	897
2	0	95	422	745	898	901
3	0	101	436	753	902	905
4	0	108	451	760	907	910
5	0	115	465	767	911	914
6	0	123	478	773	915	918
7	0	131	490	779	918	921
8	0	141	503	786	920	923
9	0	150	515	790	922	925
10	0	160	526	796	925	928
11	0	170	538	801	928	931
12	0	181	550	806	931	934
13	0	192	561	812	934	937
14	2	204	572	818	936	939
15	5	216	582	824	938	941
16	9	227	590	830	939	942
17	14	238	598	836	940	943
18	20	249	607	843	941	944
19	26	259	616	849	942	945
20	31	269	625	855	---	---
21	36	280	635	860		
22	41	290	646	866		
23	46	300	656	871		
24	50	310	666	876		
25	54	320	676	880		
26	58	331	685	883		
27	63	343	694	887		
28	69	355	703	891		
29	75	368	712	*894		
30	82	381	721	---		
31	--	395	729	---		

\* = Leap year. See effect on March.

TABLE 16. DEGREE DAYS - COOLING, BASE 65 DEGREES FAHRENHEIT  
 22-YEAR AVERAGE (1954-1975)  
 YUMA PROVING GROUND, AZ

Date	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
1	0	20	187	611	1282	2167	3008	3663	3986
2	0	21	197	630	1309	2196	3033	3680	3970
3	0	23	207	649	1337	2225	3058	3696	3972
4	0	26	216	668	1365	2253	3083	3711	3974
5	0	31	225	687	1392	2281	3108	3725	3976
6	0	57	280	777	1533	2423	3238	3792	3984
7	0	41	245	725	1446	2337	3158	3753	3981
8	0	46	256	743	1474	2365	3184	3766	3982
9	0	51	268	760	1503	2394	3211	3779	3983
10	0	57	280	777	1533	2423	3238	3792	3984
11	0	62	293	795	1562	2451	3264	3804	3985
12	0	67	305	815	1591	2479	3290	3816	3986
13	0	73	318	836	1620	2508	3314	3828	----
14	0	79	331	857	1649	2535	3337	3841	
15	0	85	344	878	1678	2562	3359	3852	
16	0	92	359	900	1707	2589	3381	3862	
17	0	99	375	923	1735	2615	3402	3872	
18	0	104	392	947	1764	2642	3422	3881	
19	0	108	408	971	1793	2668	3441	3890	
20	1	113	424	996	1822	2694	3459	3899	
21	2	118	438	1022	1851	2720	3478	3907	
22	2	123	452	1048	1879	2746	3496	3916	
23	2	129	466	1074	1908	2772	3514	3924	
24	2	135	481	1100	1937	2799	3533	3931	
25	3	141	496	1126	1966	2826	3552	3937	
26	5	147	512	1151	1995	2853	3571	3943	
27	8	153	528	1177	2024	2879	3590	3950	
28	10	160	544	1203	2053	2906	3609	3956	
29	12	168	561	1229	2081	2933	3628	3961	
30	15	177	578	1255	2109	2959	3646	3964	
31	18	---	594	----	2138	2984	----	3966	

TABLE 17. DEGREE DAYS - COOLING, BASE 70 DEGREES FAHRENHEIT  
 22-YEAR AVERAGE (1954-1975)  
 YUMA PROVING GROUND, AZ

Date	Apr	May	Jun	Jul	Aug	Sep	Oct
1	0	27	296	817	1547	2233	2738
2	0	32	310	839	1571	2253	2750
3	0	37	324	862	1595	2273	2761
4	0	41	338	885	1618	2293	2771
5	0	45	352	907	1641	2313	2780
6	0	50	366	929	1664	2333	2789
7	0	55	380	951	1687	2353	2798
8	0	61	393	974	1710	2374	2806
9	0	68	405	998	1734	2396	2814
10	1	75	417	1023	1758	2418	2822
11	1	83	430	1047	1781	2439	2829
12	1	90	445	1071	1804	2460	2836
13	2	98	461	1095	1828	2479	2843
14	3	106	477	1119	1850	2497	2851
15	4	114	493	1143	1872	2514	2857
16	6	124	510	1167	1894	2531	2862
17	8	135	528	1190	1915	2547	2867
18	8	147	547	1214	1937	2562	2871
19	8	158	566	1238	1958	2576	2875
20	8	169	586	1262	1979	2589	2879
21	8	178	607	1286	2000	2603	2882
22	8	187	628	1309	2021	2616	2886
23	9	196	649	1333	2042	2629	2889
24	10	206	670	1357	2064	2643	2891
25	11	216	691	1381	2086	2657	2892
26	12	227	711	1405	2108	2671	2893
27	13	238	732	1429	2129	2685	2895
28	15	249	753	1453	2151	2699	2896
29	18	261	774	1476	2173	2713	-----
30	22	273	795	1499	2194	2726	-----
31	--	284	---	1523	2214	-----	-----

TABLE 18. DEGREE DAYS - COOLING, BASE 75 DEGREES FAHRENHEIT  
 22-YEAR AVERAGE (1954-1975)  
 YUMA PROVING GROUND, AZ

Date	May	Jun	Jul	Aug	Sep	Oct
1	0	116	487	1062	1593	1948
2	0	125	504	1081	1608	1955
3	0	134	522	1100	1623	1961
4	0	143	540	1118	1638	1966
5	0	152	557	1136	1653	1970
6	0	161	574	1154	1668	1974
7	0	170	591	1172	1683	1978
8	1	178	609	1190	1699	1981
9	3	185	628	1209	1716	1984
10	5	192	648	1228	1733	1987
11	8	200	667	1246	1749	1989
12	10	210	686	1264	1765	1991
13	13	221	705	1283	1779	1993
14	16	232	724	1300	1792	1996
15	19	243	743	1317	1804	1997
16	24	255	762	1334	1816	----
17	30	268	780	1350	1827	
18	37	282	799	1367	1834	
19	43	296	818	1383	1846	
20	49	311	837	1399	1854	
21	53	327	856	1415	1863	
22	57	343	874	1431	1871	
23	61	359	893	1447	1879	
24	66	375	912	1464	1888	
25	71	391	931	1481	1897	
26	77	406	950	1498	1906	
27	83	422	969	1514	1915	
28	89	438	988	1531	1924	
29	96	454	1006	1548	1933	
30	103	470	1024	1564	1941	
31	109	---	1043	1579	----	

TABLE 19. DEGREE DAYS - COOLING, BASE 80 DEGREES FAHRENHEIT  
 22-YEAR AVERAGE (1954-1975)  
 YUMA PROVING GROUND, AZ

Date	May	Jun	Jul	Aug	Sep	Oct
1	0	15	236	656	1032	1237
2	0	19	248	670	1042	1239
3	0	23	261	684	1052	1240
4	0	27	274	697	1062	----
5	0	31	286	710	1072	
6	0	35	298	723	1082	
7	0	39	310	736	1092	
8	0	42	323	749	1103	
9	0	44	337	763	1115	
10	0	46	352	777	1127	
11	0	49	366	790	1138	
12	0	54	380	803	1149	
13	0	60	394	817	1158	
14	0	66	408	829	1166	
15	0	72	422	841	1173	
16	0	79	436	853	1180	
17	1	87	449	864	1186	
18	3	96	463	876	1191	
19	4	105	477	887	1195	
20	5	115	491	898	1198	
21	5	126	505	909	1202	
22	5	137	518	920	1205	
23	5	148	532	931	1208	
24	5	159	546	943	1212	
25	5	170	560	955	1216	
26	6	180	574	967	1220	
27	7	191	588	978	1224	
28	8	202	602	990	1228	
29	10	213	615	1002	1232	
30	12	224	628	1013	1235	
31	13	---	642	1023	----	

TABLE 20. DEGREE DAYS - COOLING, BASE 85 DEGREES FAHRENHEIT  
 22-YEAR AVERAGE (1954-1975)  
 YUMA PROVING GROUND, AZ

Date	Jun	Jul	Aug	Sep
1	0	87	352	573
2	0	94	361	578
3	0	102	370	583
4	0	110	378	588
5	0	117	386	593
6	0	124	394	598
7	0	131	402	603
8	0	139	410	609
9	0	148	419	616
10	0	158	428	623
11	0	167	436	629
12	0	176	444	635
13	1	185	453	639
14	2	194	460	642
15	3	203	467	644
16	5	212	474	646
17	8	220	480	647
18	12	229	487	---
19	16	238	493	
20	21	247	499	
21	27	256	505	
22	33	265	511	
23	39	273	517	
24	45	282	524	
25	51	291	531	
26	56	300	538	
27	62	309	544	
28	68	318	551	
29	74	326	558	
30	80	334	564	
31	--	343	569	

APPENDIX A. RECORDS AND AVERAGES OF INTEREST  
US ARMY YUMA PROVING GROUND, ARIZONA

PRECIPITATION

Wettest year	1965	6.40 IN
Driest year	1956	0.21 IN
Wettest month	OCT 1972	3.78 IN
Maximum in 24 hours	6 OCT 1972	3.02 IN
Month with the highest average rainfall	AUG	0.45 IN
Month with the lowest average rainfall	MAY	0.02 IN

SKY CONDITION

Most clear days	1975	284
Fewest clear days	1957	209
Most partly cloudy days	1970	108
Fewest partly cloudy days	1975	67
Most cloudy days	1957	67
Fewest cloudy days	1973	9

ANNUAL AVERAGE SKY CONDITION DAYS

Cloudy	33	9.15%
Partly cloudy	86	23.58%
Clear	246	67.27%

TEMPERATURES

Maximum - highest annual	1954	89.45
Maximum - lowest annual	1971	84.93
Minimum - highest annual	1969	61.24
Minimum - lowest annual	1975	57.67
Highest - any day	1957, 57, 58	118
Lowest - any day	1971	23
Daily average maximum		86.87
Daily average minimum		59.83

Maximum temperatures (Same calendar year)

	= or >100	= or >105	= or >110	= or >115
Earliest date	3 Apr 61	5 May 58	11 May 60	14 Jun 61
Latest date	24 Oct 59	12 Oct 65	26 Sep 56	29 Aug 54

Minimum temperatures (From autumn through spring)

	= or < 32	= or < 30	= or < 25
Earliest date	17 Nov 58	12 Dec 71; 72	3 Jan 74
Latest date	13 Mar 56	28 Feb 62	12 Jan 62

CONSECUTIVE DAYS:

Maximum equal to or greater than 100 degrees (25 Jul through 1 Oct 56 and 10 Jun through 20 Aug 60)	72
Maximum equal to or greater than 105 degrees (18 Jun through 15 Jul 57 and 12 Jun through 9 Jul 60)	28
Maximum equal to or greater than 110 degrees (1 through 10 Aug 75)	10
Maximum equal to or greater than 115 degrees (8 through 11 Jul 58 and 19 through 22 Jun 60)	4

THUNDERSTORMS (Average number of days)

December through February	1
March through May	1
June through August	7
September through November	3

SURFACE PRESSURE (Period of record: 1957 - 1975)

Highest	1023.8 mbar
Lowest	983.7 mbar

MAXIMUM WIND GUST (Period of record: 1957 - 1975)

20 March 1970	71 mi/h
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APPENDIX B. SUNRISE AND SUNSET TABLES  
US ARMY YUMA PROVING GROUND, ARIZONA

Tables include hours and minutes of daylight. These values are also shown in hours and hundreds of hours under the column headed by X.

All times shown are local standard time.

TABLE B-1. SUNRISE AND SUNSET TABLES: JANUARY  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0740	1743	10	03	10.05
2	0740	1744	10	04	10.07
3	0740	1745	10	05	10.08
4	0741	1746	10	05	10.08
5	0741	1746	10	05	10.08
6	0741	1747	10	06	10.10
7	0741	1748	10	07	10.12
8	0741	1749	10	08	10.13
9	0741	1750	10	09	10.15
10	0741	1751	10	10	10.17
11	0741	1751	10	10	10.17
12	0741	1752	10	11	10.18
13	0741	1753	10	12	10.20
14	0740	1754	10	14	10.23
15	0740	1755	10	15	10.25
16	0740	1756	10	16	10.27
17	0740	1757	10	19	10.28
18	0739	1758	10	19	10.32
19	0739	1759	10	20	10.33
20	0739	1800	10	21	10.35
21	0738	1801	10	23	10.38
22	0738	1802	10	24	10.40
23	0738	1803	10	25	10.42
24	0737	1803	10	26	10.43
25	0737	1804	10	27	10.45
26	0736	1805	10	29	10.48
27	0736	1806	10	30	10.50
28	0735	1807	10	32	10.53
29	0735	1808	10	33	10.55
30	0734	1809	10	35	10.58
31	0734	1810	10	36	10.60

TABLE B-2. SUNRISE AND SUNSET TABLES: FEBRUARY  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0733	1811	10	38	10.63
2	0732	1812	10	40	10.67
3	0732	1813	10	41	10.68
4	0731	1814	10	43	10.72
5	0730	1814	10	44	10.73
6	0729	1815	10	46	10.77
7	0729	1816	10	47	10.78
8	0728	1817	10	49	10.82
9	0727	1818	10	51	10.85
10	0726	1819	10	53	10.88
11	0725	1820	10	55	10.92
12	0724	1821	10	57	10.95
13	0724	1822	10	58	10.97
14	0723	1822	10	59	10.98
15	0722	1823	11	01	11.02
16	0721	1824	11	03	11.05
17	0720	1825	11	05	11.08
18	0719	1826	11	07	11.12
19	0718	1827	11	09	11.15
20	0717	1827	11	10	11.17
21	0716	1828	11	12	11.20
22	0715	1829	11	14	11.23
23	0713	1830	11	17	11.28
24	0712	1831	11	19	11.32
25	0711	1832	11	21	11.35
26	0710	1832	11	22	11.37
27	0709	1833	11	24	11.40
28	0708	1834	11	26	11.43
29	0707	1835	11	28	11.47

TABLE B-3. SUNRISE AND SUNSET TABLES: MARCH  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0707	1835	11	28	11.47
2	0705	1836	11	31	11.52
3	0704	1837	11	33	11.55
4	0703	1837	11	34	11.57
5	0702	1838	11	36	11.60
6	0700	1839	11	39	11.65
7	0659	1840	11	41	11.68
8	0658	1840	11	42	11.70
9	0657	1841	11	44	11.73
10	0655	1842	11	47	11.78
11	0654	1843	11	49	11.82
12	0653	1844	11	51	11.85
13	0651	1844	11	53	11.88
14	0650	1845	15	55	11.92
15	0649	1846	16	57	11.95
16	0648	1847	17	59	11.95
17	0646	1847	17	01	12.02
18	0645	1848	18	03	12.05
19	0644	1849	19	05	12.08
20	0642	1849	19	07	12.12
21	0641	1850	10	09	12.15
22	0640	1851	11	11	12.18
23	0638	1852	12	14	12.23
24	0637	1852	12	15	12.25
25	0636	1853	13	17	12.28
26	0634	1854	14	20	12.33
27	0633	1855	15	22	12.37
28	0332	1855	15	23	12.38
29	0630	1856	16	26	12.43
30	0629	1857	17	28	12.47
31	0628	1857	17	29	12.48

TABLE B-4. SUNRISE AND SUNSET TABLES. APRIL  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0626	1858	12	32	12. 53
2	0625	1859	12	34	12. 57
3	0624	1900	12	36	12. 60
4	0622	1900	12	38	12. 63
5	0621	1901	12	40	12. 67
6	0620	1902	12	42	12. 70
7	0619	1902	12	43	12. 72
8	0617	1903	12	46	12. 77
9	0616	1904	12	48	12. 80
10	0615	1905	12	50	12. 83
11	0614	1905	12	51	12. 85
12	0612	1906	12	54	12. 90
13	0611	1907	12	56	12. 93
14	0610	1907	12	57	12. 95
15	0609	1908	12	59	12. 98
16	0607	1909	13	02	13. 03
17	0606	1909	13	03	13. 05
18	0605	1910	13	05	13. 08
19	0604	1911	13	07	13. 12
20	0603	1912	13	09	13. 15
21	0602	1912	13	10	13. 17
22	0601	1913	13	12	13. 20
23	0600	1914	13	14	13. 23
24	0559	1914	13	15	13. 25
25	0557	1915	13	18	13. 30
26	0556	1916	13	20	13. 33
27	0555	1916	13	21	13. 35
28	0554	1917	13	28	13. 38
29	0553	1918	13	25	13. 42
30	0552	1919	13	27	13. 45

TABLE B-5. SUNRISE AND SUNSET TABLES: MAY  
 US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0551	1919	13	28	13.47
2	0550	1920	13	30	13.50
3	0550	1921	13	31	13.52
4	0549	1921	13	32	13.53
5	0548	1922	13	34	13.57
6	0547	1923	13	36	13.60
7	0546	1924	13	38	13.63
8	0545	1924	13	39	13.65
9	0544	1925	13	41	13.68
10	0544	1926	13	42	13.70
11	0543	1926	13	43	13.72
12	0542	1927	13	45	13.75
13	0541	1928	13	47	13.78
14	0541	1929	13	48	13.80
15	0540	1929	13	49	13.82
16	0539	1930	13	51	13.85
17	0539	1931	13	52	13.87
18	0538	1931	13	53	13.88
19	0537	1932	13	55	13.92
20	0537	1933	13	56	13.93
21	0536	1933	13	57	13.95
22	0535	1934	13	59	13.98
23	0535	1935	14	00	14.00
24	0534	1935	14	01	14.02
25	0534	1936	14	02	14.03
26	0534	1937	14	03	14.05
27	0533	1937	14	04	14.07
28	0533	1938	14	05	14.08
29	0532	1939	14	07	14.12
30	0532	1939	14	07	14.12
31	0532	1940	14	08	14.13

TABLE B-6. SUNRISE AND SUNSET TABLES: JUNE  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0532	1940	14	08	14.13
2	0531	1941	14	10	14.17
3	0531	1942	14	11	14.18
4	0531	1942	14	11	14.18
5	0530	1943	14	13	14.22
6	0530	1943	14	13	14.22
7	0530	1944	14	14	14.23
8	0530	1944	14	14	14.23
9	0530	1945	14	15	14.25
10	0530	1945	14	15	14.25
11	0530	1946	14	16	14.27
12	0530	1946	14	16	14.27
13	0530	1946	14	16	14.27
14	0530	1947	14	17	14.28
15	0530	1947	14	17	14.28
16	0530	1947	14	17	14.28
17	0530	1948	14	18	14.30
18	0530	1948	14	18	14.30
19	0530	1948	14	18	14.30
20	0530	1948	14	18	14.30
21	0530	1948	14	18	14.30
22	0531	1949	14	18	14.30
23	0531	1949	14	18	14.30
24	0531	1949	14	18	14.30
25	0531	1949	14	18	14.30
26	0532	1950	14	18	14.30
27	0532	1950	14	18	14.30
28	0533	1950	14	17	14.28
29	0533	1950	14	17	14.28
30	0533	1950	14	17	14.28

TABLE B-7. SUNRISE AND SUNSET TABLES: JULY  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0534	1950	14	16	14.27
2	0534	1950	14	16	14.27
3	0535	1949	14	14	14.23
4	0535	1949	14	14	14.23
5	0536	1949	14	13	14.22
6	0536	1949	14	13	14.22
7	0536	1949	14	13	14.22
8	0537	1949	14	12	14.20
9	0537	1948	14	11	14.18
10	0538	1948	14	10	14.17
11	0539	1948	14	09	14.15
12	0539	1948	14	09	14.15
13	0540	1947	14	07	14.12
14	0540	1947	14	07	14.12
15	0541	1947	14	06	14.10
16	0542	1946	14	04	14.07
17	0542	1946	14	04	14.07
18	0543	1945	14	02	14.03
19	0543	1945	14	02	14.03
20	0544	1944	14	00	14.00
21	0545	1944	13	59	13.98
22	0545	1943	13	58	13.97
23	0546	1942	13	56	13.93
24	0547	1942	13	55	13.92
25	0547	1941	13	54	13.90
26	0548	1941	13	53	13.88
27	0549	1940	13	51	13.85
28	0549	1939	13	50	13.83
29	0550	1938	13	48	13.80
30	0551	1938	13	47	13.78
31	0551	1937	13	46	13.77

TABLE B-8. SUNRISE AND SUNSET TABLES. AUGUST  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0552	1936	13	44	13. 73
2	0553	1935	13	42	13. 70
3	0553	1935	13	42	13. 70
4	0554	1934	13	40	13. 67
5	0555	1933	13	38	13. 63
6	0555	1932	13	37	13. 62
7	0556	1931	13	35	13. 58
8	0557	1930	13	33	13. 55
9	0557	1929	13	32	13. 53
10	0558	1928	13	30	13. 50
11	0559	1927	13	28	13. 47
12	0559	1926	13	27	13. 45
13	0600	1925	13	25	13. 42
14	0601	1924	13	23	13. 38
15	0601	1923	13	22	13. 37
16	0602	1922	13	20	13. 33
17	0603	1921	13	18	13. 30
18	0603	1920	13	17	13. 28
19	0604	1919	13	15	13. 25
20	0604	1918	13	14	13. 23
21	0605	1917	13	12	13. 20
22	0606	1916	13	10	13. 17
23	0606	1914	13	08	13. 13
24	0607	1913	13	06	13. 10
25	0608	1912	13	04	13. 07
26	0608	1911	13	03	13. 05
27	0609	1910	13	01	13. 02
28	0610	1908	12	58	12. 97
29	0610	1907	12	57	12. 95
30	0611	1906	12	55	12. 92
31	0612	1905	12	53	12. 88

TABLE B-9. SUNRISE AND SUNSET TABLES: SEPTEMBER  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0612	1903	12	51	12.85
2	0613	1902	12	49	12.82
3	0614	1901	12	47	12.78
4	0614	1859	12	45	12.75
5	0615	1858	12	43	12.72
6	0616	1857	12	41	12.68
7	0616	1855	12	39	12.65
8	0617	1854	12	37	12.62
9	0617	1853	12	36	12.60
10	0618	1851	12	33	12.55
11	0619	1850	12	31	12.52
12	0619	1849	12	30	12.50
13	0620	1847	12	27	12.45
14	0621	1846	12	25	12.42
15	0621	1845	12	24	12.40
16	0622	1843	12	21	12.35
17	0623	1842	12	19	12.32
18	0623	1841	12	18	12.30
19	0624	1839	12	15	12.25
20	0625	1838	12	13	12.22
21	0625	1837	12	12	12.20
22	0626	1835	12	09	12.15
23	0627	1834	12	07	12.12
24	0627	1833	12	06	12.10
25	0628	1831	12	03	12.05
26	0629	1830	12	01	12.02
27	0629	1828	11	59	11.98
28	0630	1827	11	57	11.95
29	0631	1826	11	55	11.92
30	0631	1824	11	53	11.88

TABLE B-10. SUNRISE AND SUNSET TABLES: OCTOBER  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0632	1823	11	51	11.85
2	0633	1822	11	49	11.82
3	0634	1821	11	47	11.78
4	0634	1819	11	45	11.75
5	0635	1818	11	43	11.72
6	0635	1816	11	41	11.68
7	0636	1815	11	39	11.65
8	0637	1814	11	37	11.62
9	0638	1813	11	35	11.58
10	0638	1811	11	33	11.55
11	0639	1810	11	31	11.52
12	0640	1809	11	29	11.48
13	0641	1808	11	27	11.45
14	0641	1806	11	25	11.42
15	0642	1805	11	23	11.38
16	0643	1804	11	21	11.35
17	0644	1803	11	19	11.32
18	0644	1802	11	18	11.30
19	0645	1801	11	16	11.27
20	0646	1759	11	13	11.22
21	0647	1758	11	11	11.18
22	0648	1757	11	09	11.15
23	0648	1756	11	08	11.13
24	0649	1755	11	06	11.10
25	0650	1754	11	04	11.07
26	0651	1753	11	02	11.03
27	0651	1752	11	01	11.02
28	0652	1751	10	59	10.98
29	0653	1750	10	57	10.95
30	0654	1749	10	55	10.92
31	0655	1748	10	53	10.88

TABLE B-11. SUNRISE AND SUNSET TABLES: NOVEMBER  
US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0655	1747	10	52	10.87
2	0656	1747	10	51	10.85
3	0657	1746	10	49	10.82
4	0658	1745	10	47	10.78
5	0659	1744	10	45	10.75
6	0700	1743	10	43	10.72
7	0701	1743	10	42	10.70
8	0701	1742	10	41	10.68
9	0702	1741	10	39	10.65
10	0703	1741	10	38	10.63
11	0704	1740	10	36	10.60
12	0705	1739	10	34	10.57
13	0706	1739	10	33	10.55
14	0707	1738	10	31	10.52
15	0708	1738	10	30	10.50
16	0708	1737	10	29	10.48
17	0709	1736	10	27	10.45
18	0710	1736	10	26	10.43
19	0711	1736	10	25	10.42
20	0712	1735	10	23	10.38
21	0713	1735	10	22	10.37
22	0714	1734	10	20	10.33
23	0715	1734	10	19	10.32
24	0716	1734	10	18	10.30
25	0716	1733	10	17	10.28
26	0717	1733	10	16	10.27
27	0718	1733	10	15	10.25
28	0719	1733	10	14	10.23
29	0720	1732	10	12	10.20
30	0721	1732	10	11	10.18

TABLE B-12. SUNRISE AND SUNSET TABLES. DECEMBER  
 US ARMY YUMA PROVING GROUND, ARIZONA

Day	Sunrise	Sunset	Daylight		X
			Hr	Min	
1	0722	1732	10	10	10 17
2	0723	1732	10	09	10 15
3	0723	1732	10	09	10 15
4	0724	1732	10	08	10 13
5	0725	1732	10	07	10 12
6	0726	1732	10	06	10 10
7	0727	1732	10	05	10 08
8	0727	1732	10	05	10 08
9	0728	1732	10	04	10 07
10	0729	1733	10	04	10 07
11	0730	1733	10	03	10 05
12	0730	1733	10	03	10 05
13	0731	1733	10	02	10 03
14	0732	1734	10	02	10 03
15	0732	1734	10	02	10 03
16	0733	1734	10	01	10 02
17	0734	1735	10	01	10 02
18	0734	1735	10	01	10 02
19	0734	1735	10	01	10 02
20	0735	1736	10	01	10 02
21	0736	1736	10	00	10 00
22	0736	1736	10	00	10 00
23	0737	1737	10	00	10 00
24	0737	1738	10	01	10 02
25	0737	1738	10	01	10 02
26	0738	1739	10	01	10 02
27	0739	1740	10	01	10 02
28	0739	1740	10	01	10 02
29	0739	1741	10	02	10 03
30	0740	1742	10	02	10 03
31	0740	1742	10	02	10 03

APPENDIX C . THE CLIMATE CALENDAR  
US ARMY YUMA PROVING GROUND, ARIZONA

Longitude: 114(Deg) 24' W

Latitude: 32(Deg) 50' N

Elevation: 98 m (324 ft)

YUMA PROVING GROUND, ARIZONA  
1954-DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JANUARY

AVG. HIGH 65 HIGHEST 74 YEAR 1962	AVG. HIGH 63 HIGHEST 74 YEAR 1964	AVG. HIGH 63 HIGHEST 75 YEAR 1969	AVG. HIGH 63 HIGHEST 77 YEAR 1969	AVG. HIGH 64 HIGHEST 78 YEAR 1954	AVG. HIGH 66 HIGHEST 82 YEAR 1962
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
AVG. LOW 40 LOWEST 29 YEAR 1967	AVG. LOW 39 LOWEST 29 YEAR 1960	AVG. LOW 38 LOWEST 24 YEAR 1974	AVG. LOW 38 LOWEST 29 YEAR 1974	AVG. LOW 39 LOWEST 27 YEAR 1971; '72	AVG. LOW 40 LOWEST 25 YEAR 1971
AVG. HIGH 65 HIGHEST 82 YEAR 1962	AVG. HIGH 66 HIGHEST 79 YEAR 1962	AVG. HIGH 67 HIGHEST 77 YEAR 1956	AVG. HIGH 66 HIGHEST 77 YEAR 1956; '61	AVG. HIGH 66 HIGHEST 76 YEAR 1956; '59	AVG. HIGH 67 HIGHEST 77 YEAR 1967
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
AVG. LOW 40 LOWEST 23 YEAR 1971	AVG. LOW 40 LOWEST 26 YEAR 1971	AVG. LOW 40 LOWEST 25 YEAR 1964	AVG. LOW 40 LOWEST 30 YEAR 1954	AVG. LOW 41 LOWEST 25 YEAR 1962	AVG. LOW 42 LOWEST 28 YEAR 1963
AVG. HIGH 68 HIGHEST 78 YEAR 1967	AVG. HIGH 70 HIGHEST 79 YEAR 1961	AVG. HIGH 70 HIGHEST 81 YEAR 1959	AVG. HIGH 70 HIGHEST 85 YEAR 1971	AVG. HIGH 70 HIGHEST 89 YEAR 1971	AVG. HIGH 68 HIGHEST 79 YEAR 1971
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
AVG. LOW 43 LOWEST 28 YEAR 1963	AVG. LOW 45 LOWEST 28 YEAR 1963	AVG. LOW 44 LOWEST 31 YEAR 1963	AVG. LOW 43 LOWEST 31 YEAR 1963	AVG. LOW 42 LOWEST 35 YEAR 1971	AVG. LOW 43 LOWEST 28 YEAR 1963
AVG. HIGH 67 HIGHEST 77 YEAR 1970	AVG. HIGH 68 HIGHEST 77 YEAR 1968	AVG. HIGH 69 HIGHEST 76 YEAR 1959; '68	AVG. HIGH 69 HIGHEST 79 YEAR 1959	AVG. HIGH 70 HIGHEST 81 YEAR 1971	AVG. HIGH 69 HIGHEST 82 YEAR 1971
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
AVG. LOW 42 LOWEST 31 YEAR 1963	AVG. LOW 42 LOWEST 32 YEAR 1966	AVG. LOW 42 LOWEST 31 YEAR 1966	AVG. LOW 42 LOWEST 30 YEAR 1964	AVG. LOW 43 LOWEST 30 YEAR 1964	AVG. LOW 44 LOWEST 32 YEAR 1964
AVG. HIGH 70 HIGHEST 84 YEAR 1971	AVG. HIGH 70 HIGHEST 83 YEAR 1971	AVG. HIGH 70 HIGHEST 84 YEAR 1954	AVG. HIGH 70 HIGHEST 84 YEAR 1954	AVG. HIGH 70 HIGHEST 81 YEAR 1971	AVG. HIGH 69 HIGHEST 84 YEAR 1971
<b>29</b>	<b>30</b>	<b>31</b>	<b>25</b>	<b>26</b>	<b>28</b>
AVG. LOW 42 LOWEST 35 YEAR 1975	AVG. LOW 42 LOWEST 31 YEAR 1969	AVG. LOW 44 LOWEST 36 YEAR 1957; '69	AVG. LOW 42 LOWEST 36 YEAR 1957; '69	AVG. LOW 43 LOWEST 30 YEAR 1964	AVG. LOW 43 LOWEST 33 YEAR 1972
RECORD TEMPERATURES (°F).	RECORD TEMPERATURES (°F).	RECORD TEMPERATURES (°F).	RECORD TEMPERATURES (°F).	RECORD TEMPERATURES (°F).	RECORD TEMPERATURES (°F).
MAXIMUM: 89: 19th, 1971	MAXIMUM: 89: 19th, 1971	MAXIMUM: 89: 19th, 1971	MAXIMUM: 89: 19th, 1971	MAXIMUM: 89: 19th, 1971	MAXIMUM: 89: 19th, 1971
MINIMUM: 23: 8th, 1971	MINIMUM: 23: 8th, 1971	MINIMUM: 23: 8th, 1971	MINIMUM: 23: 8th, 1971	MINIMUM: 23: 8th, 1971	MINIMUM: 23: 8th, 1971
AVG MAX 67	AVG MAX 67	AVG MAX 67	AVG MAX 67	AVG MAX 67	AVG MAX 67
AVG REL HUMIDITY (42)%	AVG REL HUMIDITY (42)%	AVG REL HUMIDITY (42)%	AVG REL HUMIDITY (42)%	AVG REL HUMIDITY (42)%	AVG REL HUMIDITY (42)%
AVG WIND SPEED (KTS) 4	AVG WIND SPEED (KTS) 4	AVG WIND SPEED (KTS) 4	AVG WIND SPEED (KTS) 4	AVG WIND SPEED (KTS) 4	AVG WIND SPEED (KTS) 4
PREVAILING WIND DIR NNW	PREVAILING WIND DIR NNW	PREVAILING WIND DIR NNW	PREVAILING WIND DIR NNW	PREVAILING WIND DIR NNW	PREVAILING WIND DIR NNW
RAINFALL (IN INCHES)	RAINFALL (IN INCHES)	RAINFALL (IN INCHES)	RAINFALL (IN INCHES)	RAINFALL (IN INCHES)	RAINFALL (IN INCHES)
MONTHLY AVG 0.40	MONTHLY AVG 0.40	MONTHLY AVG 0.40	MONTHLY AVG 0.40	MONTHLY AVG 0.40	MONTHLY AVG 0.40
MONTHLY MAX 1.55: 1955	MONTHLY MAX 1.55: 1955	MONTHLY MAX 1.55: 1955	MONTHLY MAX 1.55: 1955	MONTHLY MAX 1.55: 1955	MONTHLY MAX 1.55: 1955
24 HR MAX 0.93: 14, 69	24 HR MAX 0.93: 14, 69	24 HR MAX 0.93: 14, 69	24 HR MAX 0.93: 14, 69	24 HR MAX 0.93: 14, 69	24 HR MAX 0.93: 14, 69
AVERAGE NO. OF DAYS CLEAR 17	AVERAGE NO. OF DAYS CLEAR 17	AVERAGE NO. OF DAYS CLEAR 17	AVERAGE NO. OF DAYS CLEAR 17	AVERAGE NO. OF DAYS CLEAR 17	AVERAGE NO. OF DAYS CLEAR 17
PAFELY CLOUDY 9	PAFELY CLOUDY 9	PAFELY CLOUDY 9	PAFELY CLOUDY 9	PAFELY CLOUDY 9	PAFELY CLOUDY 9
AVERAGE SKY COVER 4/10	AVERAGE SKY COVER 4/10	AVERAGE SKY COVER 4/10	AVERAGE SKY COVER 4/10	AVERAGE SKY COVER 4/10	AVERAGE SKY COVER 4/10

YUMA PROVING GROUND, ARIZONA  
1954-DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

FEBRUARY		1		2		3		4		5		6		7	
AVG. HIGH	71	AVG. HIGH	70	AVG. HIGH	72	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	71	AVG. HIGH	72
HIGHEST	83	HIGHEST	86	HIGHEST	87	HIGHEST	88	HIGHEST	88	HIGHEST	87	HIGHEST	88	HIGHEST	90
YEAR	1954,'63	YEAR	1954	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1963	YEAR	1963
AVG. LOW	43	AVG. LOW	45	AVG. LOW	43	AVG. LOW	44	AVG. LOW	44	AVG. LOW	43	AVG. LOW	46	AVG. LOW	45
LOWEST	35	LOWEST	36	LOWEST	29	LOWEST	28	LOWEST	28	LOWEST	31	LOWEST	38	LOWEST	36
YEAR	1957,'69,'72	YEAR	1965,'75	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1964	YEAR	1959	YEAR	1956
AVG. HIGH	72	AVG. HIGH	73	AVG. HIGH	72	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	72	AVG. HIGH	73
HIGHEST	86	HIGHEST	81	HIGHEST	85	HIGHEST	87	HIGHEST	87	HIGHEST	88	HIGHEST	89	HIGHEST	91
YEAR	1970	YEAR	1954,'57	YEAR	1962	YEAR	1971	YEAR	1971	YEAR	1971	YEAR	1957	YEAR	1957
AVG. LOW	45	AVG. LOW	48	AVG. LOW	46	AVG. LOW	46	AVG. LOW	46	AVG. LOW	47	AVG. LOW	46	AVG. LOW	46
LOWEST	39	LOWEST	37	LOWEST	33	LOWEST	33	LOWEST	33	LOWEST	35	LOWEST	34	LOWEST	35
YEAR	1955,'74	YEAR	1955,'66	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1966	YEAR	1964	YEAR	1972
AVG. HIGH	73	AVG. HIGH	72	AVG. HIGH	71	AVG. HIGH	72	AVG. HIGH	72	AVG. HIGH	72	AVG. HIGH	71	AVG. HIGH	72
HIGHEST	87	HIGHEST	82	HIGHEST	84	HIGHEST	82	HIGHEST	82	HIGHEST	85	HIGHEST	85	HIGHEST	84
YEAR	1957	YEAR	1955	YEAR	1972	YEAR	1958	YEAR	1958	YEAR	1972	YEAR	1963,'72	YEAR	1963
AVG. LOW	45	AVG. LOW	46	AVG. LOW	46	AVG. LOW	45	AVG. LOW	45	AVG. LOW	47	AVG. LOW	46	AVG. LOW	47
LOWEST	26	LOWEST	38	LOWEST	29	LOWEST	34	LOWEST	34	LOWEST	34	LOWEST	33	LOWEST	34
YEAR	1964	YEAR	1954,'56,'60	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1975	YEAR	1955	YEAR	1955
AVG. HIGH	73	AVG. HIGH	73	AVG. HIGH	74	AVG. HIGH	76	AVG. HIGH	76	AVG. HIGH	75	AVG. HIGH	75	AVG. HIGH	76
HIGHEST	85	HIGHEST	88	HIGHEST	93	HIGHEST	90	HIGHEST	90	HIGHEST	90	HIGHEST	88	HIGHEST	90
YEAR	1954,'65	YEAR	1954	YEAR	1954	YEAR	1954	YEAR	1954	YEAR	1963	YEAR	1972	YEAR	1972
AVG. LOW	46	AVG. LOW	48	AVG. LOW	45	AVG. LOW	46	AVG. LOW	46	AVG. LOW	48	AVG. LOW	46	AVG. LOW	47
LOWEST	32	LOWEST	36	LOWEST	38	LOWEST	30	LOWEST	30	LOWEST	40	LOWEST	33	LOWEST	30
YEAR	1964	YEAR	1955,'69	YEAR	1964,'75	YEAR	1960	YEAR	1960	YEAR	1956	YEAR	1964	YEAR	1962
AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74	AVG. HIGH	74
HIGHEST	84	HIGHEST	84	HIGHEST	84	HIGHEST	84	HIGHEST	84	HIGHEST	84	HIGHEST	84	HIGHEST	84
YEAR	1972	YEAR	1972	YEAR	1972	YEAR	1972	YEAR	1972	YEAR	1972	YEAR	1972	YEAR	1972
AVG. LOW	51	AVG. LOW	51	AVG. LOW	51	AVG. LOW	51	AVG. LOW	51	AVG. LOW	51	AVG. LOW	51	AVG. LOW	51
LOWEST	40	LOWEST	40	LOWEST	40	LOWEST	40	LOWEST	40	LOWEST	40	LOWEST	40	LOWEST	40
YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956	YEAR	1956

RECORD TEMPERATURES (°F).	RAINFALL	SNOWFALL	(IN INCHES)
MAXIMUM: 93:24th, 1954	0.31	0	MONTHLY AVG
MINIMUM: 26:15th, 1964	2.41:1958	0	MONTHLY MAX
AVG MAX: 73	1.36:20, 58	0	24 HR MAX
AVG REL HUMIDITY: (38)%	AVERAGE NO. OF DAYS	9	CLEAR
AVG WIND SPEED (KTS): 4	PARTLY CLOUDY	5	CLOUDY
PREVAILING WIND DIR: NNW	AVERAGE SKY COVER	4/10	

YUMA PROVING GROUND, ARIZONA  
1954-DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

MARCH

AVG. HIGH 75 HIGHEST 89 YEAR 1967	AVG. HIGH 75 HIGHEST 86 YEAR 1956	AVG. HIGH 74 HIGHEST 92 YEAR 1972	AVG. HIGH 75 HIGHEST 95 YEAR 1972	AVG. HIGH 75 HIGHEST 93 YEAR 1972	AVG. HIGH 75 HIGHEST 91 YEAR 1972
<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
AVG. LOW 48 LOWEST 35 YEAR 1962	AVG. LOW 47 LOWEST 35 YEAR 1971	AVG. LOW 46 LOWEST 35 YEAR 1964	AVG. LOW 46 LOWEST 38 YEAR 1965	AVG. LOW 47 LOWEST 38 YEAR 1965	AVG. LOW 48 LOWEST 41 YEAR 1963
AVG. HIGH 77 HIGHEST 91 YEAR 1972	AVG. HIGH 77 HIGHEST 95 YEAR 1972	AVG. HIGH 75 HIGHEST 91 YEAR 1972	AVG. HIGH 75 HIGHEST 92 YEAR 1972	AVG. HIGH 75 HIGHEST 90 YEAR 1972	AVG. HIGH 77 HIGHEST 90 YEAR 1972
<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>
AVG. LOW 48 LOWEST 35 YEAR 1969	AVG. LOW 49 LOWEST 40 YEAR 1964	AVG. LOW 49 LOWEST 40 YEAR 1958	AVG. LOW 49 LOWEST 39 YEAR 1964	AVG. LOW 48 LOWEST 40 YEAR 1969	AVG. LOW 49 LOWEST 32 YEAR 1956
AVG. HIGH 77 HIGHEST 93 YEAR 1972	AVG. HIGH 78 HIGHEST 94 YEAR 1972	AVG. HIGH 78 HIGHEST 94 YEAR 1972	AVG. HIGH 78 HIGHEST 91 YEAR 1972	AVG. HIGH 79 HIGHEST 91 YEAR 1960	AVG. HIGH 80 HIGHEST 93 YEAR 1960
<b>15</b>	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>
AVG. LOW 48 LOWEST 34 YEAR 1962	AVG. LOW 50 LOWEST 38 YEAR 1956	AVG. LOW 51 LOWEST 43 YEAR 1957	AVG. LOW 49 LOWEST 38 YEAR 1954	AVG. LOW 50 LOWEST 44 YEAR 1954	AVG. LOW 52 LOWEST 45 YEAR 1970
AVG. HIGH 79 HIGHEST 92 YEAR 1967	AVG. HIGH 79 HIGHEST 91 YEAR 1956	AVG. HIGH 79 HIGHEST 91 YEAR 1956	AVG. HIGH 81 HIGHEST 90 YEAR 1955	AVG. HIGH 81 HIGHEST 92 YEAR 1962	AVG. HIGH 81 HIGHEST 92 YEAR 1971
<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>
AVG. LOW 52 LOWEST 38 YEAR 1955	AVG. LOW 51 LOWEST 43 YEAR 1955	AVG. LOW 52 LOWEST 45 YEAR 1954	AVG. LOW 51 LOWEST 41 YEAR 1964	AVG. LOW 52 LOWEST 41 YEAR 1964	AVG. LOW 55 LOWEST 43 YEAR 1975
AVG. HIGH 82 HIGHEST 98 YEAR 1971	AVG. HIGH 83 HIGHEST 97 YEAR 1969	AVG. HIGH 83 HIGHEST 97 YEAR 1966	AVG. HIGH 83 HIGHEST 97 YEAR 1966	AVG. HIGH 81 HIGHEST 92 YEAR 1964	AVG. HIGH 81 HIGHEST 94 YEAR 1971
<b>29</b>	<b>30</b>	<b>31</b>	<b>28</b>	RAINFALL (IN INCHES) MONTHLY AVG 0.23 MONTHLY MAX 1.38:1970 24 HR MAX 0.96:1970 AVERAGE NO. OF DAYS CLEAR 17 PARTLY CLOUDY 10 CLOUDY 4 AVERAGE SKY COVER 4/10	
AVG. LOW 52 LOWEST 44 YEAR 1973	AVG. LOW 53 LOWEST 42 YEAR 1967	AVG. LOW 54 LOWEST 45 YEAR 1967	AVG. LOW 54 LOWEST 45 YEAR 1967	AVG. LOW 52 LOWEST 41 YEAR 1964	AVG. LOW 53 LOWEST 45 YEAR 1972

YUMA PROVING GROUND, ARIZONA  
1954- DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

APRIL		1		2		3		4		5		6		7	
AVG. HIGH YEAR	81 1966	AVG. HIGH YEAR	80 1959	AVG. HIGH YEAR	81 1961	AVG. HIGH YEAR	83 1961	AVG. HIGH YEAR	85 1960	AVG. HIGH YEAR	84 1960	AVG. HIGH YEAR	84 1960	AVG. HIGH YEAR	83 1960
HIGHEST YEAR	98 1966	HIGHEST YEAR	98 1959	HIGHEST YEAR	100 1961	HIGHEST YEAR	103 1961	HIGHEST YEAR	97 1960	HIGHEST YEAR	97 1960	HIGHEST YEAR	97 1960	HIGHEST YEAR	96 1960
AVG. LOW YEAR	54 1966	AVG. LOW YEAR	53 1959	AVG. LOW YEAR	53 1961	AVG. LOW YEAR	54 1961	AVG. LOW YEAR	55 1960	AVG. LOW YEAR	56 1960	AVG. LOW YEAR	56 1960	AVG. LOW YEAR	56 1960
LOWEST YEAR	48 1966	LOWEST YEAR	43 1959	LOWEST YEAR	42 1961	LOWEST YEAR	44 1961	LOWEST YEAR	43 1960	LOWEST YEAR	45 1960	LOWEST YEAR	45 1960	LOWEST YEAR	44 1960
YEAR	1954	YEAR	1975	YEAR	1975	YEAR	1955	YEAR	1958	YEAR	1958	YEAR	1958	YEAR	1964
AVG. HIGH YEAR	85 1962	AVG. HIGH YEAR	84 1960	AVG. HIGH YEAR	85 1960	AVG. HIGH YEAR	84 1971	AVG. HIGH YEAR	85 1962	AVG. HIGH YEAR	86 1962	AVG. HIGH YEAR	86 1962	AVG. HIGH YEAR	85 1962
HIGHEST YEAR	97 1962	HIGHEST YEAR	96 1960	HIGHEST YEAR	95 1960	HIGHEST YEAR	94 1971	HIGHEST YEAR	98 1962	HIGHEST YEAR	102 1962	HIGHEST YEAR	102 1962	HIGHEST YEAR	102 1962
AVG. LOW YEAR	54 1962	AVG. LOW YEAR	55 1960	AVG. LOW YEAR	56 1960	AVG. LOW YEAR	57 1971	AVG. LOW YEAR	55 1962	AVG. LOW YEAR	56 1962	AVG. LOW YEAR	56 1962	AVG. LOW YEAR	57 1962
LOWEST YEAR	43 1962	LOWEST YEAR	44 1960	LOWEST YEAR	43 1960	LOWEST YEAR	46 1971	LOWEST YEAR	44 1962	LOWEST YEAR	45 1962	LOWEST YEAR	45 1962	LOWEST YEAR	50 1962
YEAR	1975	YEAR	1973	YEAR	1975	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1972
AVG. HIGH YEAR	86 1962	AVG. HIGH YEAR	86 1954	AVG. HIGH YEAR	86 1954	AVG. HIGH YEAR	84 1954	AVG. HIGH YEAR	82 1954	AVG. HIGH YEAR	84 1958	AVG. HIGH YEAR	84 1958	AVG. HIGH YEAR	85 1958
HIGHEST YEAR	102 1962	HIGHEST YEAR	103 1954	HIGHEST YEAR	104 1954	HIGHEST YEAR	104 1954	HIGHEST YEAR	101 1954	HIGHEST YEAR	103 1958	HIGHEST YEAR	103 1958	HIGHEST YEAR	104 1958
AVG. LOW YEAR	56 1962	AVG. LOW YEAR	57 1954	AVG. LOW YEAR	58 1954	AVG. LOW YEAR	57 1954	AVG. LOW YEAR	56 1954	AVG. LOW YEAR	56 1972	AVG. LOW YEAR	56 1972	AVG. LOW YEAR	55 1973
LOWEST YEAR	44 1962	LOWEST YEAR	49 1954	LOWEST YEAR	49 1954	LOWEST YEAR	46 1954	LOWEST YEAR	45 1954	LOWEST YEAR	48 1972	LOWEST YEAR	48 1972	LOWEST YEAR	46 1973
YEAR	1970	YEAR	1970	YEAR	1963	YEAR	1975	YEAR	1968	YEAR	1972	YEAR	1972	YEAR	1973
AVG. HIGH YEAR	85 1958	AVG. HIGH YEAR	85 1962	AVG. HIGH YEAR	85 1962	AVG. HIGH YEAR	84 1966	AVG. HIGH YEAR	84 1973	AVG. HIGH YEAR	86 1973	AVG. HIGH YEAR	86 1973	AVG. HIGH YEAR	87 1959
HIGHEST YEAR	101 1958	HIGHEST YEAR	98 1962	HIGHEST YEAR	97 1962	HIGHEST YEAR	95 1966	HIGHEST YEAR	98 1973	HIGHEST YEAR	100 1973	HIGHEST YEAR	100 1973	HIGHEST YEAR	98 1959
AVG. LOW YEAR	56 1958	AVG. LOW YEAR	57 1962	AVG. LOW YEAR	57 1962	AVG. LOW YEAR	58 1966	AVG. LOW YEAR	58 1971	AVG. LOW YEAR	56 1963	AVG. LOW YEAR	56 1963	AVG. LOW YEAR	57 1970
LOWEST YEAR	43 1958	LOWEST YEAR	44 1962	LOWEST YEAR	49 1962	LOWEST YEAR	47 1966	LOWEST YEAR	49 1971	LOWEST YEAR	47 1963	LOWEST YEAR	47 1963	LOWEST YEAR	46 1970
YEAR	1957	YEAR	1967	YEAR	1960	YEAR	1964	YEAR	1971	YEAR	1963	YEAR	1963	YEAR	1970
AVG. HIGH YEAR	88 1959	AVG. HIGH YEAR	89 1959	AVG. HIGH YEAR	89 1959	AVG. HIGH YEAR	89 1959	AVG. HIGH YEAR	89 1959	AVG. HIGH YEAR	89 1959	AVG. HIGH YEAR	89 1959	AVG. HIGH YEAR	89 1959
HIGHEST YEAR	102 1959	HIGHEST YEAR	100 1959	HIGHEST YEAR	100 1959	HIGHEST YEAR	100 1959	HIGHEST YEAR	100 1959	HIGHEST YEAR	100 1959	HIGHEST YEAR	100 1959	HIGHEST YEAR	100 1959
AVG. LOW YEAR	58 1959	AVG. LOW YEAR	59 1959	AVG. LOW YEAR	59 1959	AVG. LOW YEAR	59 1959	AVG. LOW YEAR	59 1959	AVG. LOW YEAR	59 1959	AVG. LOW YEAR	59 1959	AVG. LOW YEAR	59 1959
LOWEST YEAR	44 1959	LOWEST YEAR	49 1959	LOWEST YEAR	49 1959	LOWEST YEAR	49 1959	LOWEST YEAR	49 1959	LOWEST YEAR	49 1959	LOWEST YEAR	49 1959	LOWEST YEAR	49 1959
YEAR	1970	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1967	YEAR	1970
		RECORD TEMPERATURES (°F).		MAXIMUM 104:17, 18, '54; 21'58		MINIMUM 42:36, 1975		AVG MAX 85		AVG MIN 56		RAINFALL SNOWFALL (IN INCHES)		MONTHLY AVG MONTHLY MAX	
		AVG PEL WETTED (28)		AVG WIND SPEED (KTS) 5		PREVAILING WIND DIR W		AVERAGE NC. OF DAYS CLEAR 21		PARTLY CLOUDY 6		CLOUDY 3		AVERAGE SKY COVER 3/10	
		31		30		31		0.15		0		0		0	
		1.463		1.65		1.89		1.965		1.65		0		0	

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MAY

AVG. HIGH HIGHEST YEAR	90 101 1961	AVG. HIGH HIGHEST YEAR	90 103 1966	AVG. HIGH HIGHEST YEAR	89 100 1958;'62	AVG. HIGH HIGHEST YEAR	87 105 1958	AVG. HIGH HIGHEST YEAR	89 104 1963	AVG. HIGH HIGHEST YEAR	89 103 1963
<b>1</b>		<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>		<b>7</b>	
AVG. LOW LOWEST YEAR	60 47 1967	AVG. LOW LOWEST YEAR	60 49 1967	AVG. LOW LOWEST YEAR	60 51 1959;'64	AVG. LOW LOWEST YEAR	60 46 1964	AVG. LOW LOWEST YEAR	60 48 1964	AVG. LOW LOWEST YEAR	61 52 1970;'75
AVG. HIGH HIGHEST YEAR	90 102 1962	AVG. HIGH HIGHEST YEAR	91 102 1960	AVG. HIGH HIGHEST YEAR	93 110 1960	AVG. HIGH HIGHEST YEAR	91 106 1960	AVG. HIGH HIGHEST YEAR	93 102 1960	AVG. HIGH HIGHEST YEAR	92 101 1975
<b>8</b>		<b>10</b>		<b>11</b>		<b>12</b>		<b>13</b>		<b>14</b>	
AVG. LOW LOWEST YEAR	61 50 1964	AVG. LOW LOWEST YEAR	63 54 1964	AVG. LOW LOWEST YEAR	63 55 1957	AVG. LOW LOWEST YEAR	62 55 1957	AVG. LOW LOWEST YEAR	63 49 1962	AVG. LOW LOWEST YEAR	64 54 1962
AVG. HIGH HIGHEST YEAR	93 102 1970	AVG. HIGH HIGHEST YEAR	95 108 1970	AVG. HIGH HIGHEST YEAR	96 106 1970;'73	AVG. HIGH HIGHEST YEAR	96 108 1958	AVG. HIGH HIGHEST YEAR	95 106 1958;'67	AVG. HIGH HIGHEST YEAR	94 108 1958
<b>15</b>		<b>17</b>		<b>18</b>		<b>19</b>		<b>20</b>		<b>21</b>	
AVG. LOW LOWEST YEAR	63 50 1957	AVG. LOW LOWEST YEAR	64 53 1962	AVG. LOW LOWEST YEAR	67 57 1962	AVG. LOW LOWEST YEAR	66 53 1974	AVG. LOW LOWEST YEAR	66 52 1974	AVG. LOW LOWEST YEAR	65 52 1975
AVG. HIGH HIGHEST YEAR	94 106 1958	AVG. HIGH HIGHEST YEAR	94 105 1958	AVG. HIGH HIGHEST YEAR	95 109 1974	AVG. HIGH HIGHEST YEAR	96 110 1974	AVG. HIGH HIGHEST YEAR	96 109 1958	AVG. HIGH HIGHEST YEAR	96 113 1958
<b>22</b>		<b>24</b>		<b>25</b>		<b>26</b>		<b>27</b>		<b>28</b>	
AVG. LOW LOWEST YEAR	64 53 1971	AVG. LOW LOWEST YEAR	65 56 1965	AVG. LOW LOWEST YEAR	65 56 1965	AVG. LOW LOWEST YEAR	66 58 1962	AVG. LOW LOWEST YEAR	67 54 1962	AVG. LOW LOWEST YEAR	67 55 1962;'71
AVG. HIGH HIGHEST YEAR	97 111 1958	AVG. HIGH HIGHEST YEAR	96 106 1969	AVG. HIGH HIGHEST YEAR	96 104 1975	RECORD TEMPERATURES (°F). MAXIMUM: 113; 28th, 1958 MINIMUM: 46; 5th, 1964 AVG MAX: 93 AVG MIN: 64 AVG REL HUMIDITY: (26)% AVG WIND SPEED (KTS): 5 PREDOMINANT WIND DIR: W	RAINFALL (IN INCHES) MONTHLY AVG: 0.02 MONTHLY MAX: 0.19; 1968 24 HR MAX: 0.15; 1958 AVERAGE NO. OF DAYS PARTLY CLOUDY: 5 CLOUDY: 1 AVERAGE SKY COVER: 2/10				
<b>29</b>		<b>31</b>									
AVG. LOW LOWEST YEAR	67 53 1971	AVG. LOW LOWEST YEAR	68 59 1971	AVG. LOW LOWEST YEAR	67 59 1971						



YUMA PROVING GROUND, ARIZONA  
1954 - DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE -1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

JULY

AVG. HIGH HIGHEST YEAR	107 114 1972	AVG. HIGH HIGHEST YEAR	107 113 1972; '73	AVG. HIGH HIGHEST YEAR	107 114 1957	AVG. HIGH HIGHEST YEAR	108 116 1972	AVG. HIGH HIGHEST YEAR	106 112 1954; '66; '74	AVG. HIGH HIGHEST YEAR	106 113 1966	AVG. HIGH HIGHEST YEAR	106 114 1958	
<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>		<b>7</b>		
AVG. LOW LOWEST YEAR	76 70 1955; '68	AVG. LOW LOWEST YEAR	78 67 1954	AVG. LOW LOWEST YEAR	79 69 1956	AVG. LOW LOWEST YEAR	78 68 1961	AVG. LOW LOWEST YEAR	79 67 1961	AVG. LOW LOWEST YEAR	78 69 1961	AVG. LOW LOWEST YEAR	79 69 1955	
AVG. HIGH HIGHEST YEAR	106 117 1958	AVG. HIGH HIGHEST YEAR	107 118 1958	AVG. HIGH HIGHEST YEAR	108 115 1958	AVG. HIGH HIGHEST YEAR	108 117 1958	AVG. HIGH HIGHEST YEAR	108 116 1964	AVG. HIGH HIGHEST YEAR	107 113 1960; '71	AVG. HIGH HIGHEST YEAR	107 114 1963	
<b>8</b>		<b>9</b>		<b>10</b>		<b>11</b>		<b>12</b>		<b>13</b>		<b>14</b>		
AVG. LOW LOWEST YEAR	80 71 1955	AVG. LOW LOWEST YEAR	80 73 1960; '74	AVG. LOW LOWEST YEAR	81 71 1955	AVG. LOW LOWEST YEAR	81 71 1974	AVG. LOW LOWEST YEAR	81 71 1974	AVG. LOW LOWEST YEAR	81 68 1962	AVG. LOW LOWEST YEAR	81 73 1962	
AVG. HIGH HIGHEST YEAR	107 113 1954; '60	AVG. HIGH HIGHEST YEAR	105 115 1960	AVG. HIGH HIGHEST YEAR	104 112 1960	AVG. HIGH HIGHEST YEAR	106 116 1960	AVG. HIGH HIGHEST YEAR	106 113 1960; '61	AVG. HIGH HIGHEST YEAR	106 115 1960	AVG. HIGH HIGHEST YEAR	105 112 1963	
<b>15</b>		<b>16</b>		<b>17</b>		<b>18</b>		<b>19</b>		<b>20</b>		<b>21</b>		
AVG. LOW LOWEST YEAR	82 70 1962	AVG. LOW LOWEST YEAR	82 69 1962	AVG. LOW LOWEST YEAR	81 70 1962	AVG. LOW LOWEST YEAR	81 76 1962; '75	AVG. LOW LOWEST YEAR	81 73 1958	AVG. LOW LOWEST YEAR	81 74 1958; '72	AVG. LOW LOWEST YEAR	82 74 1973	
AVG. HIGH HIGHEST YEAR	105 114 1963	AVG. HIGH HIGHEST YEAR	106 113 1959	AVG. HIGH HIGHEST YEAR	105 113 1957	AVG. HIGH HIGHEST YEAR	107 114 1974	AVG. HIGH HIGHEST YEAR	106 112 1959	AVG. HIGH HIGHEST YEAR	106 112 1954; '58	AVG. HIGH HIGHEST YEAR	106 116 1954	
<b>22</b>		<b>23</b>		<b>24</b>		<b>25</b>		<b>26</b>		<b>27</b>		<b>28</b>		
AVG. LOW LOWEST YEAR	82 74 1973	AVG. LOW LOWEST YEAR	82 70 1973	AVG. LOW LOWEST YEAR	82 72 1973	AVG. LOW LOWEST YEAR	82 75 1965	AVG. LOW LOWEST YEAR	82 76 1975	AVG. LOW LOWEST YEAR	82 77 1958	AVG. LOW LOWEST YEAR	82 74 1958	
AVG. HIGH HIGHEST YEAR	104 112 1972	AVG. HIGH HIGHEST YEAR	104 115 1957	AVG. HIGH HIGHEST YEAR	106 118 1957	AVG. HIGH HIGHEST YEAR	106 118 1965	AVG. HIGH HIGHEST YEAR	106 112 1975	AVG. HIGH HIGHEST YEAR	106 112 1958	AVG. HIGH HIGHEST YEAR	106 116 1958	
<b>29</b>		<b>30</b>		<b>31</b>		RECORD TEMPERATURES (°F.) MAXIMUM: 118; 31st, '57; 9th, '58 MINIMUM: 67; 2d, '54; 5th, '61 AVG MAX 106; 1st, 81 AVG REL HUMIDITY (35%) AVG WIND SPEED (K'S) 5 PREVAILING WIND DIR SW							RAINFALL (IN INCHES) MONTHLY AVG MONTHLY MAX AVERAGE NO. OF DAYS PARTLY CLOUDY AVERAGE SKY COVER	
AVG. LOW LOWEST YEAR	82 76 1961; '65	AVG. LOW LOWEST YEAR	82 68 1958	AVG. LOW LOWEST YEAR	83 76 1958								0.17 1.52; 1958 1.36; 30, '58 0 0 24 HR MAX CLEAR 20 CLOUDY 2 3/10	

YUMA PROVING GROUND, ARIZONA  
1954- DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE -1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

AUGUST

AVG. HIGH HIGHEST YEAR	106 115 1972	AVG. HIGH HIGHEST YEAR	106 114 1969	AVG. HIGH HIGHEST YEAR	105 116 1975	AVG. HIGH HIGHEST YEAR	104 111 1969	AVG. HIGH HIGHEST YEAR	105 112 1970	AVG. HIGH HIGHEST YEAR	106 113 1975
<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>	<b>7</b>
AVG. LOW LOWEST YEAR	82 75 1959	AVG. LOW LOWEST YEAR	82 75 1956	AVG. LOW LOWEST YEAR	80 70 1956	AVG. LOW LOWEST YEAR	81 68 1956	AVG. LOW LOWEST YEAR	81 73 1956	AVG. LOW LOWEST YEAR	81 73 1957
AVG. HIGH HIGHEST YEAR	105 111 1956	AVG. HIGH HIGHEST YEAR	106 111 1965; '66	AVG. HIGH HIGHEST YEAR	106 112 1962	AVG. HIGH HIGHEST YEAR	106 114 1962	AVG. HIGH HIGHEST YEAR	106 113 1962	AVG. HIGH HIGHEST YEAR	106 113 1962
<b>8</b>		<b>9</b>		<b>10</b>		<b>11</b>		<b>12</b>		<b>13</b>	<b>14</b>
AVG. LOW LOWEST YEAR	81 72 1957	AVG. LOW LOWEST YEAR	82 74 1967	AVG. LOW LOWEST YEAR	82 74 1974	AVG. LOW LOWEST YEAR	81 73 1974	AVG. LOW LOWEST YEAR	81 70 1955	AVG. LOW LOWEST YEAR	82 75 1974
AVG. HIGH HIGHEST YEAR	104 111 1962	AVG. HIGH HIGHEST YEAR	104 112 1969	AVG. HIGH HIGHEST YEAR	103 110 1960; '62	AVG. HIGH HIGHEST YEAR	104 114 1960	AVG. HIGH HIGHEST YEAR	103 109 1969	AVG. HIGH HIGHEST YEAR	103 113 1969
<b>15</b>		<b>16</b>		<b>17</b>		<b>18</b>		<b>19</b>		<b>20</b>	<b>21</b>
AVG. LOW LOWEST YEAR	80 70 1968	AVG. LOW LOWEST YEAR	80 69 1968	AVG. LOW LOWEST YEAR	79 70 1975	AVG. LOW LOWEST YEAR	80 71 1972; '75	AVG. LOW LOWEST YEAR	79 72 1972; '73	AVG. LOW LOWEST YEAR	79 73 1974
AVG. HIGH HIGHEST YEAR	104 115 1969	AVG. HIGH HIGHEST YEAR	104 113 1969	AVG. HIGH HIGHEST YEAR	104 110 1956	AVG. HIGH HIGHEST YEAR	105 115 1962	AVG. HIGH HIGHEST YEAR	105 112 1967	AVG. HIGH HIGHEST YEAR	105 112 1967
<b>22</b>		<b>23</b>		<b>24</b>		<b>25</b>		<b>26</b>		<b>27</b>	<b>28</b>
AVG. LOW LOWEST YEAR	79 68 1954	AVG. LOW LOWEST YEAR	78 66 1968	AVG. LOW LOWEST YEAR	79 69 1968	AVG. LOW LOWEST YEAR	79 70 1954	AVG. LOW LOWEST YEAR	78 68 1972	AVG. LOW LOWEST YEAR	78 68 1956
AVG. HIGH HIGHEST YEAR	105 116 1954	AVG. HIGH HIGHEST YEAR	104 110 1954	AVG. HIGH HIGHEST YEAR	103 110 1959; '75	AVG. HIGH HIGHEST YEAR	103 110 1968	AVG. HIGH HIGHEST YEAR	103 110 1972	AVG. HIGH HIGHEST YEAR	105 111 1973
<b>29</b>		<b>30</b>		<b>31</b>		RECORD TEMPERATURES (°F). MAXIMUM: 116; 29th, '54; 4th, '75 MINIMUM: 65; 31st, 1957					
AVG. LOW LOWEST YEAR	79 69 1975	AVG. LOW LOWEST YEAR	78 68 1957; '62	AVG. LOW LOWEST YEAR	77 65 1957	RAINFALL (IN INCHES) MONTHLY AVG MONTHLY MAX					
						0.45 2.19; 1955 0 0.75; 6, '59 0 0					
						AVERAGE NO. OF DAYS PARTLY CLOUDY AVERAGE SKY COVER					
						20 8 3/10					



YUMA PROVING GROUND, ARIZONA  
 1954-DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
 MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

OCTOBER

<b>1</b> AVG. HIGH 1974 104 HIGHEST YEAR	<b>2</b> AVG. LOW 1971 57 LOWEST YEAR	<b>3</b> AVG. HIGH 1959 68 LOWEST YEAR	<b>4</b> AVG. LOW 1959 54 LOWEST YEAR	<b>5</b> AVG. HIGH 1959 65 LOWEST YEAR	<b>6</b> AVG. LOW 1969 56 LOWEST YEAR	<b>7</b> AVG. HIGH 1960 103 HIGHEST YEAR	
<b>8</b> AVG. HIGH 1963 103 HIGHEST YEAR	<b>9</b> AVG. LOW 1961 47 LOWEST YEAR	<b>10</b> AVG. HIGH 1961 63 LOWEST YEAR	<b>11</b> AVG. LOW 1973 50 LOWEST YEAR	<b>12</b> AVG. HIGH 1965 105 HIGHEST YEAR	<b>13</b> AVG. LOW 1969 49 LOWEST YEAR	<b>14</b> AVG. HIGH 1958 102 HIGHEST YEAR	
<b>15</b> AVG. HIGH 1966 88 HIGHEST YEAR	<b>16</b> AVG. LOW 1966 50 LOWEST YEAR	<b>17</b> AVG. HIGH 1960 61 LOWEST YEAR	<b>18</b> AVG. LOW 1971 49 LOWEST YEAR	<b>19</b> AVG. HIGH 1971 60 LOWEST YEAR	<b>20</b> AVG. LOW 1969 53 LOWEST YEAR	<b>21</b> AVG. HIGH 1969 96 HIGHEST YEAR	
<b>22</b> AVG. HIGH 1957 82 HIGHEST YEAR	<b>23</b> AVG. LOW 1957 52 LOWEST YEAR	<b>24</b> AVG. HIGH 1961 59 LOWEST YEAR	<b>25</b> AVG. LOW 1975 44 LOWEST YEAR	<b>26</b> AVG. HIGH 1975 56 LOWEST YEAR	<b>27</b> AVG. LOW 1975 50 LOWEST YEAR	<b>28</b> AVG. HIGH 1965 96 HIGHEST YEAR	
<b>29</b> AVG. LOW 1971 43 LOWEST YEAR	<b>30</b> AVG. HIGH 1965 96 HIGHEST YEAR	<b>31</b> AVG. LOW 1971 36 LOWEST YEAR	RECORD TEMPERATURES (°F): MAXIMUM: 105.5th, '64; 12th, '65 MINIMUM: 36: 31st, 1971 AVG MAX: 89 AVG MIN: 61 AVG REL HUMIDITY (35)% AVG WIND SPEED (KTS) 4 PREVAILING WIND DIR W				RAINFALL S.W.M.F.A.L.L. (IN INCHES) MONTHLY AVG: 0.42 MONTHLY MAX: 3.78: 1972 MONTHLY MIN: 0 AVERAGE NO. OF DAYS CLEAR: 23 PARTLY CLOUDY: 6 CLOUDY: 2 AVERAGE SKY COVER: 3/10

YUMA PROVING GROUND, ARIZONA  
1954-DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

NOVEMBER

<b>1</b> AVG. HIGH 81 HIGHEST 94 YEAR 1962;'66 AVG. LOW 54 LOWEST 41 YEAR 1972	<b>2</b> AVG. HIGH 80 HIGHEST 90 YEAR 1962 AVG. LOW 53 LOWEST 42 YEAR 1956	<b>3</b> AVG. HIGH 82 HIGHEST 94 YEAR 1962 AVG. LOW 53 LOWEST 42 YEAR 1961	<b>4</b> AVG. HIGH 82 HIGHEST 92 YEAR '62;'65;'75 AVG. LOW 53 LOWEST 40 YEAR 1956	<b>5</b> AVG. HIGH 82 HIGHEST 91 YEAR 1975 AVG. LOW 53 LOWEST 41 YEAR 1956	<b>6</b> AVG. HIGH 82 HIGHEST 89 YEAR 1965;'75 AVG. LOW 54 LOWEST 44 YEAR 1968;'73	<b>7</b> AVG. HIGH 81 HIGHEST 90 YEAR 1956 AVG. LOW 52 LOWEST 46 YEAR 1968;'73	
<b>8</b> AVG. HIGH 81 HIGHEST 90 YEAR 1956;'62 AVG. LOW 52 LOWEST 47 YEAR 1974	<b>9</b> AVG. HIGH 81 HIGHEST 92 YEAR 1956 AVG. LOW 51 LOWEST 43 YEAR 1955	<b>10</b> AVG. HIGH 82 HIGHEST 90 YEAR 1973 AVG. LOW 50 LOWEST 40 YEAR 1966	<b>11</b> AVG. HIGH 80 HIGHEST 92 YEAR 1973 AVG. LOW 51 LOWEST 42 YEAR 1966	<b>12</b> AVG. HIGH 79 HIGHEST 93 YEAR 1973 AVG. LOW 52 LOWEST 42 YEAR 1958	<b>13</b> AVG. HIGH 77 HIGHEST 89 YEAR 1967 AVG. LOW 53 LOWEST 44 YEAR 1965	<b>14</b> AVG. HIGH 76 HIGHEST 88 YEAR 1967 AVG. LOW 50 LOWEST 41 YEAR 1975	
<b>15</b> AVG. HIGH 74 HIGHEST 87 YEAR 1967 AVG. LOW 49 LOWEST 40 YEAR 1964	<b>16</b> AVG. HIGH 72 HIGHEST 86 YEAR 1967 AVG. LOW 49 LOWEST 35 YEAR 1964	<b>17</b> AVG. HIGH 73 HIGHEST 84 YEAR 1967 AVG. LOW 47 LOWEST 31 YEAR 1958	<b>18</b> AVG. HIGH 72 HIGHEST 86 YEAR 1967 AVG. LOW 46 LOWEST 35 YEAR 1958	<b>19</b> AVG. HIGH 73 HIGHEST 83 YEAR 1966 AVG. LOW 46 LOWEST 35 YEAR 1961;'64	<b>20</b> AVG. HIGH 74 HIGHEST 83 YEAR 1954 AVG. LOW 47 LOWEST 33 YEAR 1956	<b>21</b> AVG. HIGH 73 HIGHEST 84 YEAR 1954 AVG. LOW 48 LOWEST 36 YEAR 1956	
<b>22</b> AVG. HIGH 73 HIGHEST 85 YEAR 1954 AVG. LOW 47 LOWEST 40 YEAR 1964	<b>23</b> AVG. HIGH 74 HIGHEST 86 YEAR 1954 AVG. LOW 47 LOWEST 39 YEAR 1955;'61	<b>24</b> AVG. HIGH 76 HIGHEST 86 YEAR 1954;'59 AVG. LOW 46 LOWEST 36 YEAR 1955	<b>25</b> AVG. HIGH 75 HIGHEST 86 YEAR 1954 AVG. LOW 48 LOWEST 38 YEAR 1966	<b>26</b> AVG. HIGH 74 HIGHEST 85 YEAR 1954 AVG. LOW 48 LOWEST 39 YEAR 1966	<b>27</b> AVG. HIGH 73 HIGHEST 85 YEAR 1954 AVG. LOW 46 LOWEST 35 YEAR 1973	<b>28</b> AVG. HIGH 73 HIGHEST 85 YEAR 1954 AVG. LOW 46 LOWEST 38 YEAR 1959	
<b>29</b> AVG. HIGH 72 HIGHEST 82 YEAR 1966 AVG. LOW 47 LOWEST 41 YEAR 1959	<b>30</b> AVG. HIGH 70 HIGHEST 80 YEAR 1966 AVG. LOW 46 LOWEST 38 YEAR 1975	<b>31</b> AVG. HIGH HIGHEST YEAR AVG. LOW LOWEST YEAR	RECORD TEMPERATURES (°F). MAXIMUM 94: 1st & 3d, '62, 1st '66 MINIMUM 31: 17th, 1958 AVG MAX 76 AVG MIN 49 AVG REL HUMIDITY (37)% AVG WIND SPEED (KTS) 4 PREVAILING WIND DIR NNW			RAINFALL SNOWFALL (IN INCHES) MONTHLY AVG MONTHLY MAX 0.22 0 1.73: 1969 0 0.95: 10, '69 0 AVERAGE NO. OF DAYS CLEAR 19 PARTLY CLOUDY 8 CLOUDY 3 AVERAGE SKY COVER 3/10	

YUMA PROVING GROUND, ARIZONA

1954 - DAILY TEMPERATURE MEANS AND EXTREMES, WITH YEAR OF OCCURRENCE-1975  
MONTHLY SUMMARY OF AVERAGE CLIMATOLOGICAL DATA, WITH RAINFALL EXTREMES

DECEMBER

AVG. HIGH HIGHEST YEAR	72 81 1966	AVG. HIGH HIGHEST YEAR	72 83 1959	AVG. HIGH HIGHEST YEAR	71 84 1958	AVG. HIGH HIGHEST YEAR	70 82 1958	AVG. HIGH HIGHEST YEAR	71 82 1966	AVG. HIGH HIGHEST YEAR	71 82 1966	AVG. HIGH HIGHEST YEAR	69 79 1958
	<b>1</b>		<b>2</b>		<b>3</b>		<b>4</b>		<b>5</b>		<b>6</b>		<b>7</b>
AVG. LOW LOWEST YEAR	45 38 1972	AVG. LOW LOWEST YEAR	46 37 1974	AVG. LOW LOWEST YEAR	46 39 1972; '74	AVG. LOW LOWEST YEAR	45 37 1960	AVG. LOW LOWEST YEAR	45 36 1968	AVG. LOW LOWEST YEAR	44 34 1972	AVG. LOW LOWEST YEAR	44 35 1960
AVG. HIGH HIGHEST YEAR	68 80 1962; '75	AVG. HIGH HIGHEST YEAR	68 82 1962; '75	AVG. HIGH HIGHEST YEAR	68 80 1962	AVG. HIGH HIGHEST YEAR	68 80 1958; '62	AVG. HIGH HIGHEST YEAR	68 82 1958	AVG. HIGH HIGHEST YEAR	67 79 1958	AVG. HIGH HIGHEST YEAR	65 79 1958
	<b>8</b>		<b>9</b>		<b>10</b>		<b>11</b>		<b>12</b>		<b>13</b>		<b>14</b>
AVG. LOW LOWEST YEAR	43 34 1960	AVG. LOW LOWEST YEAR	44 31 1971	AVG. LOW LOWEST YEAR	43 31 1960	AVG. LOW LOWEST YEAR	42 31 1974	AVG. LOW LOWEST YEAR	41 28 1972	AVG. LOW LOWEST YEAR	41 33 1963	AVG. LOW LOWEST YEAR	41 31 1963
AVG. HIGH HIGHEST YEAR	66 77 1958	AVG. HIGH HIGHEST YEAR	67 74 1958; '62	AVG. HIGH HIGHEST YEAR	67 77 1958	AVG. HIGH HIGHEST YEAR	67 76 1958	AVG. HIGH HIGHEST YEAR	68 75 1960; '66	AVG. HIGH HIGHEST YEAR	68 78 1955	AVG. HIGH HIGHEST YEAR	67 78 1955
	<b>15</b>		<b>16</b>		<b>17</b>		<b>18</b>		<b>19</b>		<b>20</b>		<b>21</b>
AVG. LOW LOWEST YEAR	40 30 1963; '64	AVG. LOW LOWEST YEAR	41 32 1964; '71	AVG. LOW LOWEST YEAR	41 33 1975	AVG. LOW LOWEST YEAR	42 34 1968	AVG. LOW LOWEST YEAR	42 33 1968	AVG. LOW LOWEST YEAR	42 35 1968; '71	AVG. LOW LOWEST YEAR	41 28 1968
AVG. HIGH HIGHEST YEAR	67 77 1955	AVG. HIGH HIGHEST YEAR	68 80 1955	AVG. HIGH HIGHEST YEAR	68 81 1964	AVG. HIGH HIGHEST YEAR	67 77 1964	AVG. HIGH HIGHEST YEAR	67 77 1960; '64	AVG. HIGH HIGHEST YEAR	66 75 1956	AVG. HIGH HIGHEST YEAR	65 78 1956
	<b>22</b>		<b>23</b>		<b>24</b>		<b>25</b>		<b>26</b>		<b>27</b>		<b>28</b>
AVG. LOW LOWEST YEAR	43 26 1968	AVG. LOW LOWEST YEAR	43 32 1968	AVG. LOW LOWEST YEAR	42 31 1974	AVG. LOW LOWEST YEAR	43 31 1963	AVG. LOW LOWEST YEAR	41 32 1954	AVG. LOW LOWEST YEAR	40 31 1966; '68; '74	AVG. LOW LOWEST YEAR	41 30 1974
AVG. HIGH HIGHEST YEAR	65 78 1963	AVG. HIGH HIGHEST YEAR	64 72 1973	AVG. HIGH HIGHEST YEAR	63 72 1963	AVG. HIGH HIGHEST YEAR	63 72 1963	RECORD TEMPERATURES (°F). MAXIMUM 84; 3d, 1958 MINIMUM 26; 29th, '54; 22d, '68 AVG MAX 68 AVG MIN 42 AVG REL HUMIDITY (42)% AVG WIND SPEED (KTS) 4 PREVAILING WIND DIR (NW)	RECORD TEMPERATURES (°F). MAXIMUM 84; 3d, 1958 MINIMUM 26; 29th, '54; 22d, '68 AVG MAX 68 AVG MIN 42 AVG REL HUMIDITY (42)% AVG WIND SPEED (KTS) 4 PREVAILING WIND DIR (NW)	RAINFALL SNOWFALL (IN INCHES) 0.38 0 2.11; 1965 0 0.90; 15, '61 0 AVERAGE NO. OF DAYS CLEAR 18 PARTLY CLOUDY 8 CLOUDY 5 AVERAGE SKY COVER 4/10	RAINFALL SNOWFALL (IN INCHES) 0.38 0 2.11; 1965 0 0.90; 15, '61 0 AVERAGE NO. OF DAYS CLEAR 18 PARTLY CLOUDY 8 CLOUDY 5 AVERAGE SKY COVER 4/10		
	<b>29</b>		<b>30</b>		<b>31</b>		<b>31</b>						
AVG. LOW LOWEST YEAR	40 26 1957	AVG. LOW LOWEST YEAR	39 33 1968	AVG. LOW LOWEST YEAR	39 29 1972	AVG. LOW LOWEST YEAR	39 29 1972						

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